DAQTest
Test Management Platform
User's Manual

Beijing Promise-auto Technology Co., Ltd.

Introduction

Thank you very much for using DAQTest of Beijing Promise-auto Technology Co., Ltd.
The manual explains how to operate the DAQTest. To ensure correct use the software, please read this manual thoroughly before beginning operation.

Caution

The performance and functionality of the software will continue to improve. The contents of this manual are subject to change without prior notice.
Every effort has been made by the author to ensure accuracy in the preparation of this manual. However, should any doubts arise or errors come to your attention, please contact us.
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Version

January 2016	1st Edition
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Article I Scope
This Agreement applies to the following Promise-auto Software (including the associated documentation) provided by the Company to the User. In addition, this Agreement applies to the updates and upgrades of the Promise-auto Software which may be provided by the Company.

Name of Software: DAQTest

Article II Grant of License

1. The Company hereby grants to the User a non-exclusive and non-transferable right to use the Promise-auto Software solely for internal operation purpose (hereinafter referred to as "Use Right").

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7. Under the circumstance that the Promise-auto Software contains any third-party software, if the Company accepts from third party the special terms and conditions for use of such third-party software which differ from this Agreement, the Company will notify in writing the User thereof, and the User shall comply with such terms and conditions.

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1. The Promise-auto Software is not produced or licensed for use in relation to:
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(b) Planning, design, development, construction, maintenance, operation and use of any nuclear related facility or radiation-related equipment.
(c) Planning, design, development, construction, maintenance, operation and use of any nuclear weapon, chemical weapon, biological weapon or railway facility.
(d) Planning, design, development, construction, maintenance, operation and use of any device relating to personal safety such as medical device.

2. If the Promise-auto Software is used by the User for the abovementioned purposes, the Company will assume no liability for any claim or damage arising from the said use, and all relevant liabilities shall be borne by the User.

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1. The User acknowledges that the Promise-auto Software is provided to the User on an "as is" basis at the time of manufacturing or delivery. The Company hereby disclaims no warranties, whether express or implied, with respect to quality, functionality, appropriateness, accuracy, reliability and recency of the Promise-auto Software. In no event shall the Company warrant that there is no inconsistency or interference between the Promise-auto Software and other software.

2. Notwithstanding the foregoing, if the Promise-auto Software contains any third-party software, the warranty period and the warranty clauses shall be subject to the provisions of the supplier of such third-party software.

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1．If the User is warned or receive a claim by a third party that the Promise-auto Software in its original form infringes any third party's patent, trade mark, copyright or other intellectual property rights ("Claim"), the User shall promptly notify the Company thereof in writing.

2．If the infringement mentioned above is attributable to the Company, under the precondition that the User grants to the Company the full authority to control the defense and settlement of such Claim and gives every and all necessary information and assistance to the Company, the Company will, at its own expenses, defend the User from the Claim and indemnify the User from the damages finally granted by the court.

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(b) Replace the Promise-auto Software with other software product to prevent the infringement upon third-party right.
(c) Modify the Promise-auto Software, in whole or in part, so that it becomes non-infringing.

4．If the Company fails to take any of the measures mentioned above, the Company will, to the extent of the license fee already paid by the Company to the Company under Article 2.1 hereof, make compensation for the User.

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1．Should the User incur any damage when using the Promise-auto Software provided by the Company to the User in accordance with the terms and condition hereof and such damage is attributable to the Company, the Company will take the corresponding measures in accordance with the terms and conditions hereof; provided that, the Company shall not be liable to any incidental, consequential or indirect damages incurred by the User(including loss of business profits, loss caused by business interruption, loss of business data and other losses). In no event the compensation payable by the Company shall exceed the license fee paid by the User to the Company in accordance with Article 2.1 hereof. In addition, if the Promise-auto Softwares altered, modified or combined with other software or is otherwise made different from the basic specifications or functional specifications of the Promise-auto Software without the prior written consent of the Company, the Company may be exempted from all or any of its obligations and liabilities under this Agreement or law.

2．Any claim against the Company based on any cause of action under or in relation to this Agreement must be given in writing to the Company within three (3) months after the cause of action accrues.

Article VII Export Control

Without the prior written consent of the Company, the User may not export or provide to any other countries, whether directly or indirectly, the Promise-auto Software and associated documentations.

Article VIII Term

This Agreement shall come into effect as of the date on which the User receives the Promise-auto Software, and, if not being rescinded, shall remain in full force and effect till the time when the User or the Company terminates the use of the Promise-auto Software by giving a one-month written notice to the other party or till the time when the use of the Promise-auto Software by the User is terminated automatically. Upon termination or rescission of this Agreement, the User shall fully delete or destroy the Promise-auto Software and the associated documentation as well as the copies thereof; provided that, if being otherwise notified by the Company, the User shall return the above-mentioned items to the Company or any third party as designated by the Company.

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After the Company grants to the User the license for use of the Promise-auto Software, if the using environment is changed, or the User has concealed any inappropriate using environment when obtaining the license, or the Company believes that the User is obviously unsuitable for use of the Promise-auto Software, the Company hall have the right to terminate the use of the Promise-auto Software by the User.

Article X Rescission

Should the User breach any of the terms and conditions hereof, the Company may rescind this Agreement with immediate effect upon written notice to the User. The provisions of Article 5, Article 6, Article 11 and Article 12 shall survive the termination or rescission of this Agreement.

Article XI Governing Law

This agreement shall be governed by and construed in accordance with the laws of the People’s Republic of China.

Article XII Settlement of Disputes

Any dispute which may arise between the parties hereto, out of, in relation to or in connection with this Agreement shall be resolved amicably through negotiation between the User and the Company. Should no settlement can be reached through negotiation, the dispute shall be submitted to arbitration institution for settlement. The award of arbitration shall be final and be binding upon both parties.

Contents

Chapter 1. Overview

1.1. Overview of software features

DAQTest is a platform for information management in test units. It can collect data from various instruments such as recorders, power meters and digital multimeters, control the start and stop of the test according to the logic of the test, and form statistical results according to the test results and data. Output customized reports. The main functions of the DAQTest are as follows:

Test management

You can create new folders, projects and tests in Test Management. Folders and projects are used to classify and manage tests. Folders and projects can be created under folders, while only tests can be created under projects.

Device management

In Device Management, you can create new devices and maintain device-related information, such as device name, IP address, calibration date, and validity period. It can communicate with the device, obtain the latest configuration information of the device and monitor the data collected by the device.

Bench management

In Bench Management, the measurement channel can be managed by the bench, that is, the channel obtained from the equipment is allocated to the bench, and the channel used for the test can be obtained from the bench.

User Management

In User Management, you can create, modify, delete users or define roles, and assign and delete roles for users.

Execute the test

According to the set parameters, the test can be completed manually or automatically, and the real-time test data is displayed in the form of trends and digitals.

Search the test

In Search Test, tests can be found according to different search criteria. You can jump directly to the corresponding test by double-clicking the search result.

View test data and export

The test data can be viewed, and the data can be exported in CSV file format. The exported CSV file can be opened and edited with Excel .

Generate test report

Word or PDF version report can be generated after the test finished. The system provides a default test report template and supports user-defined report templates.

Data Backup and Recovery

In order to ensure data security, the software provides a data backup function. The user can specify the backup path, and the software will manually or automatically backup the data

to this directory. The software does not support automatic data recovery. Users can manually copy the backup data to the corresponding directory to complete the data recovery.

1.2. System configuration and use environment

· The system configuration of the DAQTest is shown below.

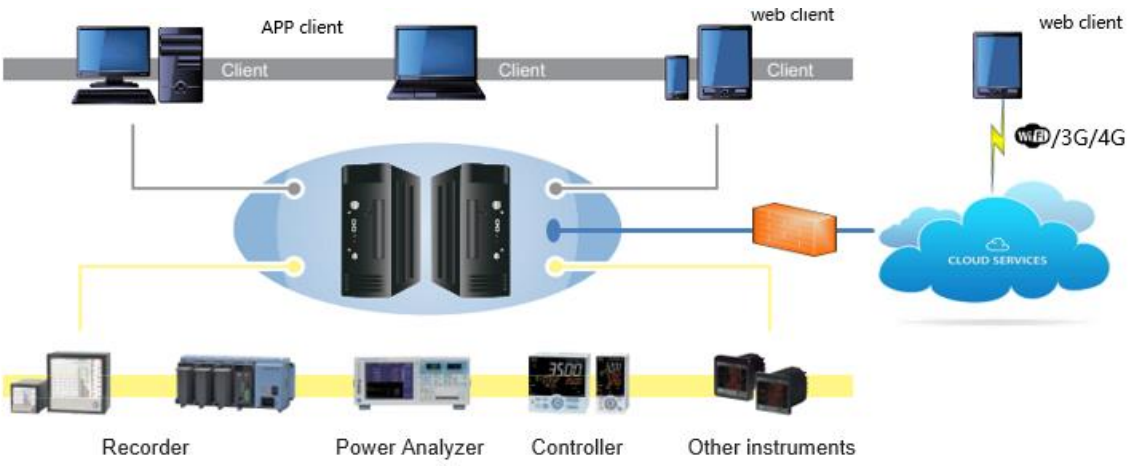


Figure 1 DAQTest system configuration diagram

· The software usage environment is shown in the figure below.

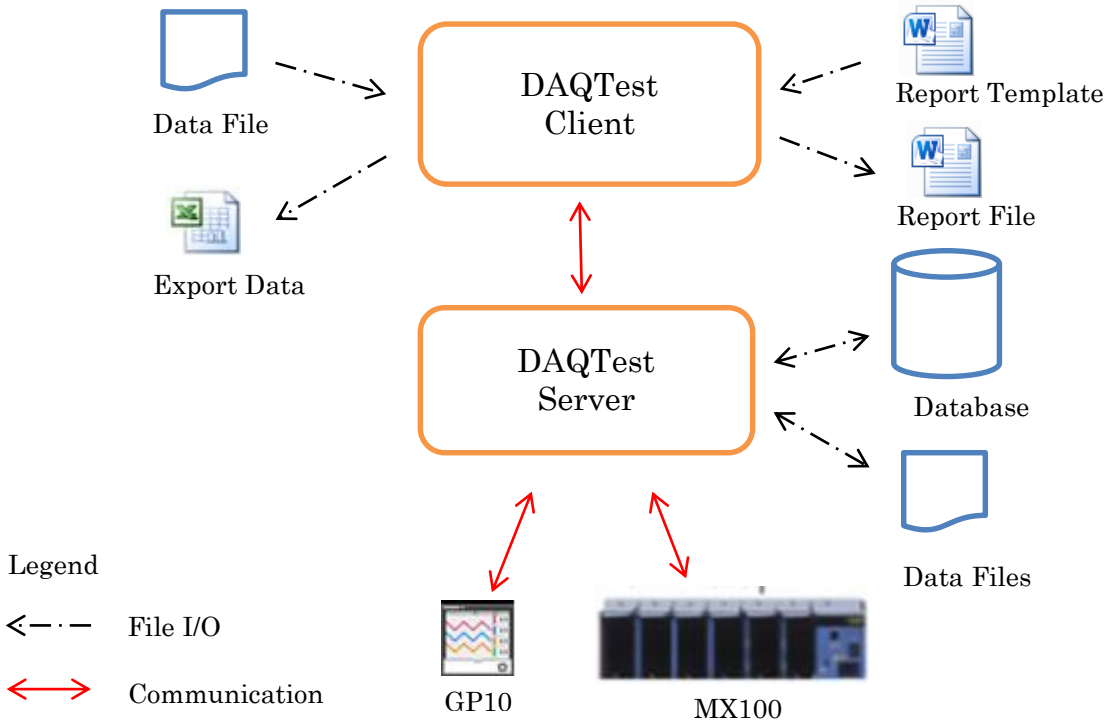


Figure 2 Software use environment

1.3. Supported Data Acquisition Devices

The devices supported by the DAQTest are shown in Table 1.

Table 1 Devices supported by DAQTest

Manufacturer	Device name	Remark
YOKOGAWA	MX100, MW100	
	DA100	
	DR130, DR230, DR240	
	GX10, GX20	
	GP10, GP20	
	GM10	
	VZ20X	Support 1 ms period
	UT55A	Other UT tables can be supported by adding Modbus definition files
	WT210, WT310	Other models can be supported by adding WT definition file
	WT1800E	
	WT3000, WT3000E	
	WT5000	
EEC	EEC6500, EEC6700	
	EEC-EAB-160	
Hioki	LR8450	
GRAPHTEC	GL240, GL840	
AMETEK	EX1401	Support 1 ms period
Keysight	34970A, 34972A	
ITECH	IT8500 , IT8600, IT8800	
	IT8702 +8732	
	IT6500 _	
Others	MODBUS device	Corresponding to the MODBUS definition file

1.4. Main specifications and performance of the platform

Table 2 Specifications

Specification	parameter
Maximum number of connected instruments at the same time	100
Maximum number of connected clients at the same time	50
Maximum number of tests to run at the same time	30
Interval	100 ms, 200 ms, 500 ms, 1 s, 2 s, 5 s, 10 s, 20 s, 30 s, 1 min, 2 min, 5 min, 10 min
Maximum number of channels in a single test	200
Maximum number of test groups within a single test	4
Number of channels within each test group	100

Specification	parameter
Number of registers that can be registered	500
Number of Registerable benches	500
The number of terminals can be set for the bench	100
Number of registered users	100
Number of roles that can be registered	50
Number of supported folder levels	50

Table 3 Software performance

Number of recording channels	recording period
500ch	100msec
1000ch	200msec
2000ch	500msec

1.5. Operating environment

The operating environment required for the DAQTest test management platform is shown below.

Table 4 Supported Operating Systems

Operating System	Version	32bit	64bit	SP
Windows 7	Professional	○	○	SP1
Windows 8	Pro	○	○	
Windows 10	-	○	○	
Windows 11	-	○	○	
Windows Server 2008	R2	-	○	SP1
Windows Server 2012	-	-	○	
Windows Server 2016	-	-	○	
Windows Server 2019				

○ support - unsupported

Table 5 Computer configuration requirements

Subject	Content
CPU	i5 2.4GHz or higher
Memory	More than 8GB
Hard Disk	More than 500MB available space
Mouse	OS supports mouse
Display	1280x1024 pixels or more, 65536 colors or more
Communication Port	An Ethernet card is required for the PC. Windows TCP/IP service must be installed.

Table 6 Other environments

Software	Version
Microsoft Office Word	2010 or newer(recommended 2010, 2013 or 2016). Required only on the client

1.6. Software trials and licensing

The DAQTest software can be tried for 60 days without authorization. After 60 days, you will be prompted with an expired software trial message. Please refer to “DAQTest Test Management Platform Installation Manual” to activate software.

1.7. Common rules

・Time display format

yyyy/MM/dd HH:mm:ss by default . For example: 2015/10/21 10:11:12. Except for specially specified formats.

・Validation of input numbers

When the number entered in the number input box is larger than the maximum allowable value, it will automatically become the maximum value. No errors are prompted.

When the number entered in the number input box is less than the allowable minimum value, it automatically becomes the minimum value. No errors are prompted.

When a non-numeric symbol is entered in the numeric input box, it automatically becomes the default value. No errors are prompted.

・Validation of input text

When the number of characters entered in the text input box is greater than the maximum allowed, the text will be automatically truncated. No errors are prompted.

・Required fields on the screen and validity of the confirm or save button

If the required items on the screen have not been filled in, the confirmation or save button on the screen will be invalid. It becomes valid when all required fields are filled in.

Chapter 2. User interface and operation process

2.1. screen layout

The main interface consists of four parts: toolbar, navigator, work area and status bar, as shown in the figure below.

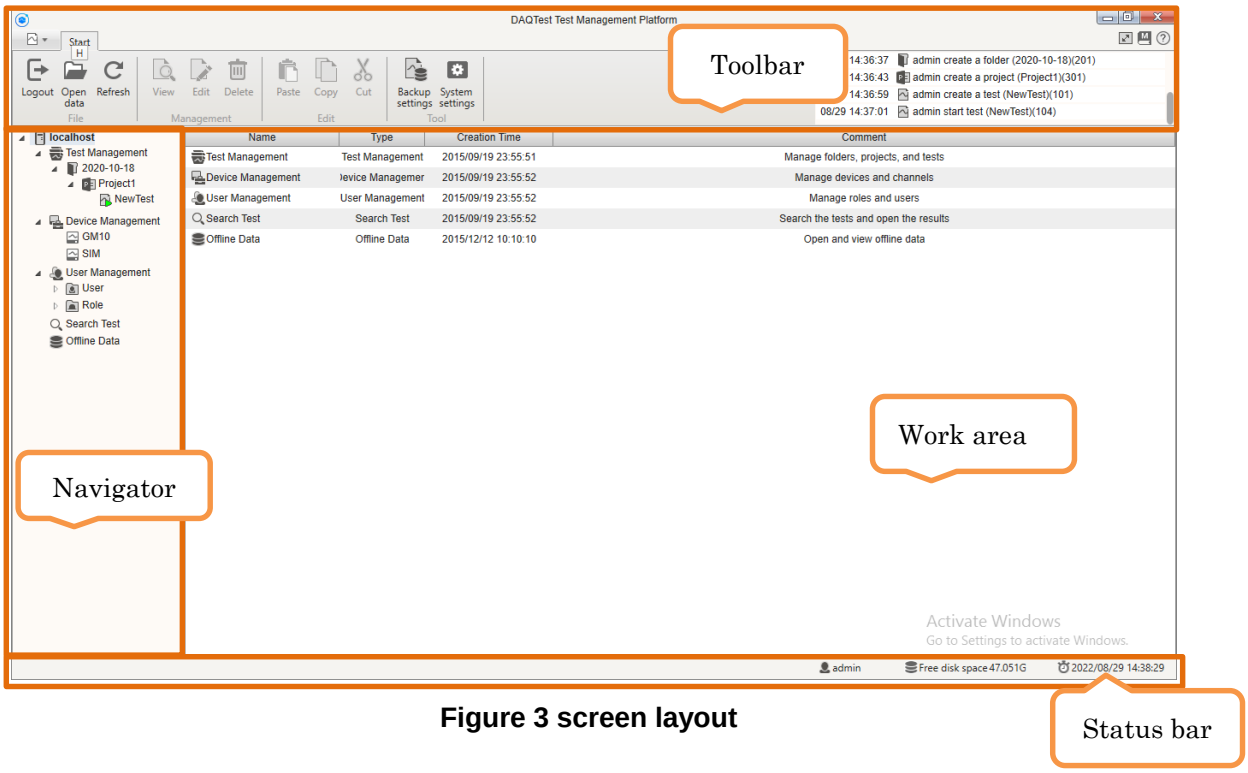


Figure 3 screen layout

2.2. Toolbar

The toolbar is mainly composed of the button area and the log area. The content varies according to whether you are logged in and whether you are testing, as shown in the figure below.

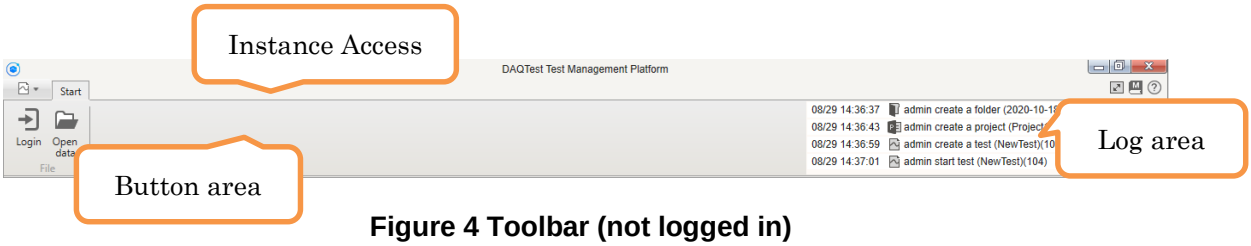


Figure 4 Toolbar (not logged in)

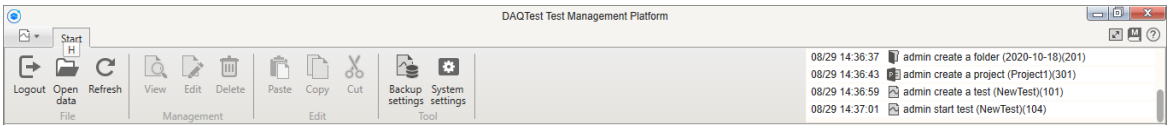


Figure 5 Toolbar (logged in, non-test state)

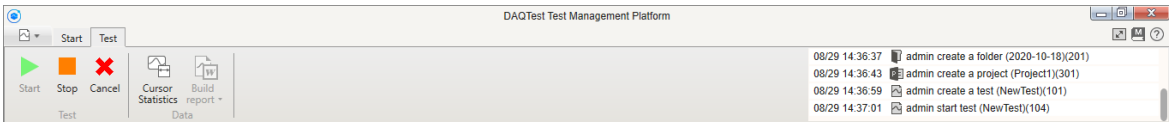


Figure 6 Toolbar (logged in, state during testing)

2.2.1. Show / Hide button area

Double-click the title of the toolbar tab page (for example, "Start") to switch the display and non-display of the button area.

2.2.2. Log area

The server log is displayed in the log area of the toolbar. The appearance of the log box is shown in the following figure.

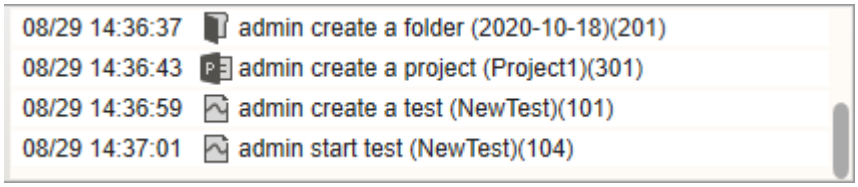


Figure 7 Log area

The display format of the log is: [Time] [Type icon] [content] (code)

The most recent 1000 logs are displayed in the log list.

・Rolling form of the log

When the vertical scroll bar of the log stays at the bottom, if a new log is generated, the log is automatically scrolled to the latest log.

The log does not scroll automatically when the log's vertical scroll bar rests on anything other than the bottom.

When the vertical scroll bar of the log moves from the bottom to another position, the timing starts. If the vertical scroll bar is not operated, the vertical scroll bar automatically moves to the bottom after 1 minute, and the log starts to scroll automatically.

・Storage of logs

The displayed log is automatically stored to a file. It is convenient to query operation events.

The location of the file is in the client working folder (default is c:\DAQTestClient_Data), and the file is saved on a monthly basis.

The file name is: DAQTestClient_year_month_MessageLog.txt

2.2.3. View help

Click the [Manual] button on the toolbar , or select [Manual] in the File menu to display this User's Manual.

If the Adobe Reader software is not installed on the client, the E3101 prompt box is

displayed. Please install Adobe Reader software before opening.

2.2.4. View version information

Click the [About] button on the toolbar to display the version information dialog box, displaying the software copyright information, version number and server serial number and other information.

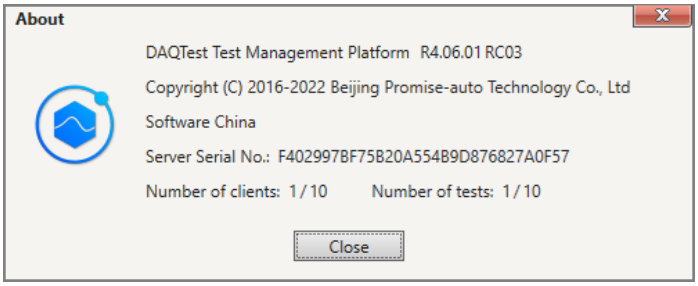


Figure 8 Version Information Dialog Box

2.2.5. maximize/restore workspace

Click the [Maximize workspace] button on the toolbar to hide the navigator, and then click the [Restore workspace] button to display the navigator.

2.3. Navigator

The navigator lists each function block in the form of a tree. The navigator is shown below.

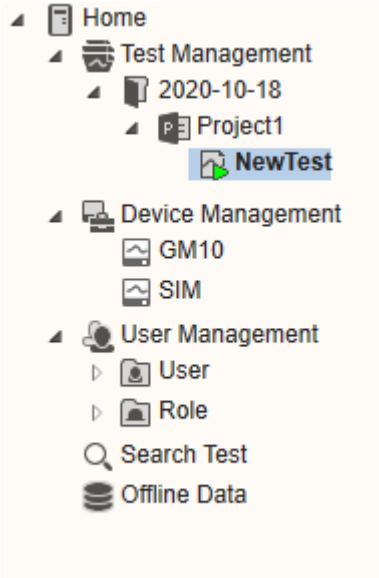


Figure 9 Navigator

- **Manage projects and tests in folders**

  A multi-level folder can be created under the test management node, then a project can

be created under the folder, and a test can be created under the project. Implement hierarchical management of projects and tests. The contents under each level of directory are not loaded by default until the node is expanded.

The maximum supported folder level is 50 levels.

・Refresh of the navigator

Click the refresh button on the toolbar to refresh 

the data in the navigator to synchronize with the data in the server.

2.4. Status Bar

The status bar is at the bottom of the window, displaying the current login user name, the remaining disk space of the server data storage folder and the current system time . This information is updated every minute. The status bar is shown in the figure below.

Figure 10 Status bar

2.5. software operation process

The following figure describes the main operation process of the DAQTest, including preparation, operation and maintenance, and testing.

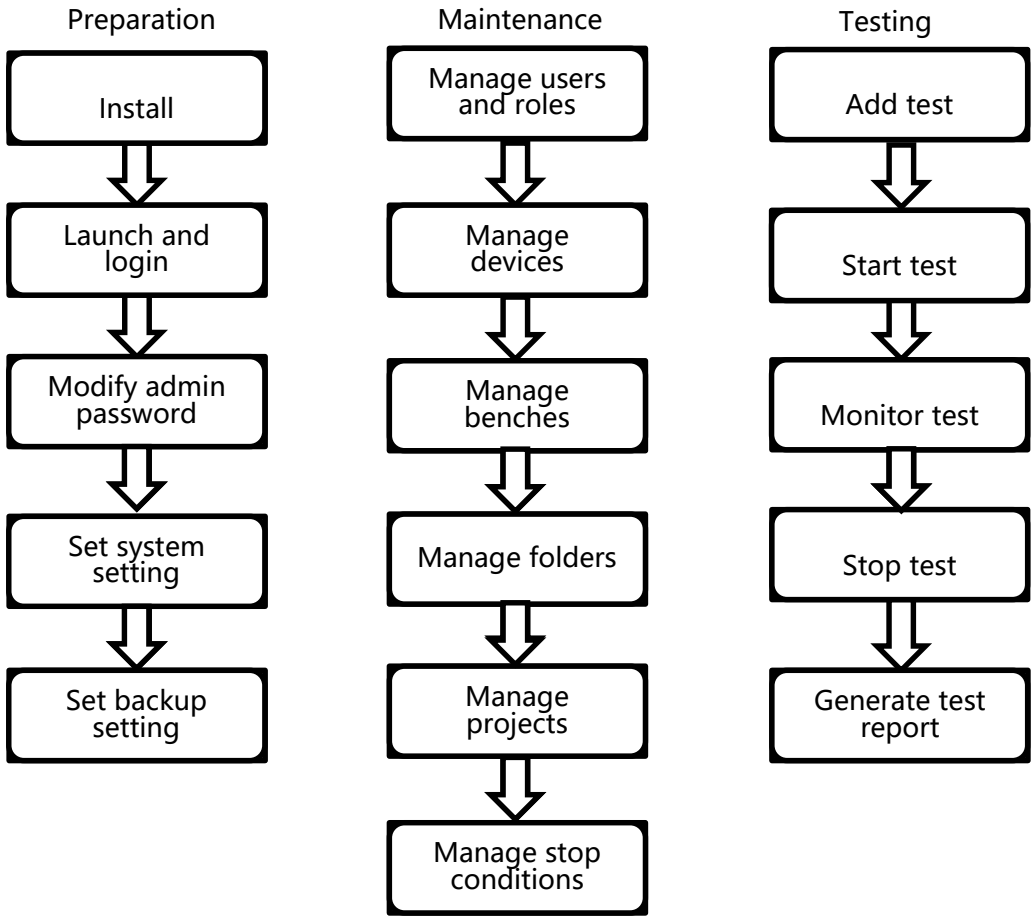


Figure 11 Flowchart of basic software operation

Chapter 3. Installation, startup, login and related settings

3.1. software installation

Please refer to “DAQTest Test Management Platform Installation Manual” to install the DAQTest.

3.2. Start, login, logout and exit the software

・Startup and login

1. Select [All Programs]-[DAQTest]-[DAQTest Client] from the start menu to start the program. After startup, the main screen of the software and the login dialog box are displayed. The login dialog box is shown below.

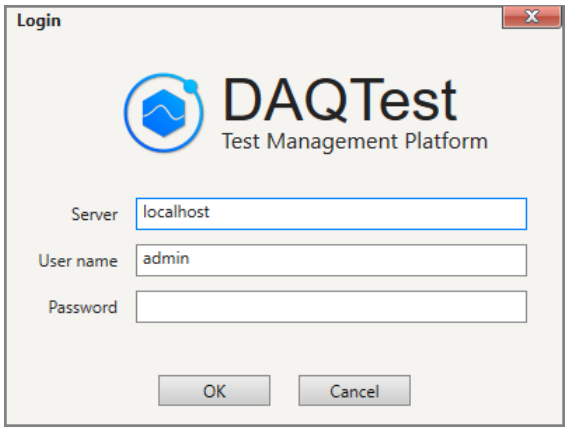


Figure 12 Login dialog

2. Enter the server IP address (enter localhost when login the same machine) , user name and password.
3. Click the OK button to login to the server.

[Description]

The default password of admin is empty. Please change the administrator password after the first login.

Please keep the changed admin password in a safe place. If you forget the admin password, please contact us.

[Error message]

When the client and server versions are inconsistent, E3004 is displayed.

The communication error with the server shows E3006.

If the user name and password are incorrect, E3007 is displayed.

·Logout

1. Select the logout button on the toolbar 

, or [Logout] on the file menu.
2. Display the logout confirmation dialog M1002, click the OK button in the dialog to log

out of the server, and display the main screen after logout.

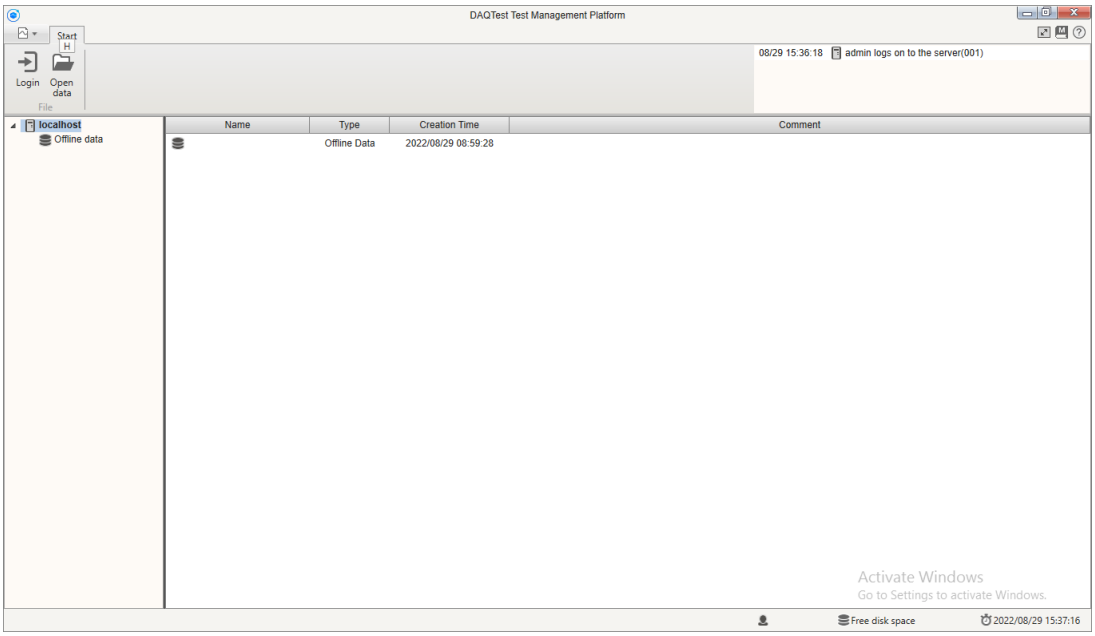


Figure 13 Main screen after user logout

·Exit

1. Select [Exit] on the file menu, or click the close button in the upper right corner of the main screen.
2. The exit confirmation dialog M1001 is displayed. Click OK to exit the program.

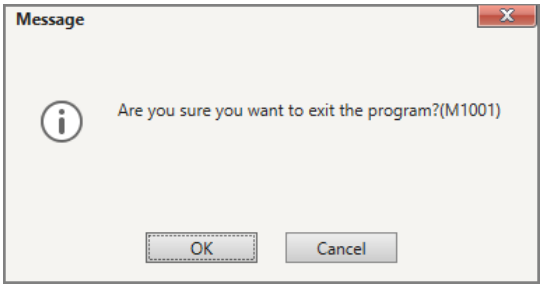


Figure 14 Exit the OK prompt box

3.3. Modify user password

1. Select [Modify the user password] from the File menu to display the Change Password dialog box.

2. In the Change Password dialog box, enter the old password, new password, and confirm the password. Click the Confirm button.

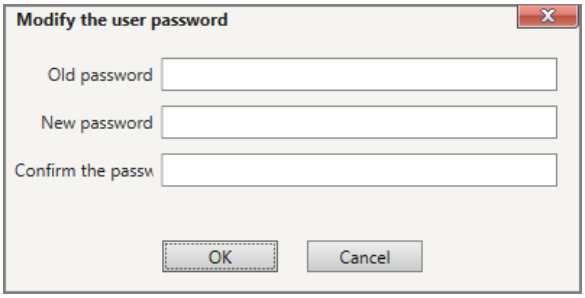


Figure 15 Modify user password dialog box

[Error message]

E3009 is displayed when the old password entered is incorrect.

E3010 will be displayed when the new password after the change is inconsistent with the confirmation password.

3.4. System setting

Select the [System Settings] button on the toolbar to display the System Settings dialog box, as shown in the figure below.

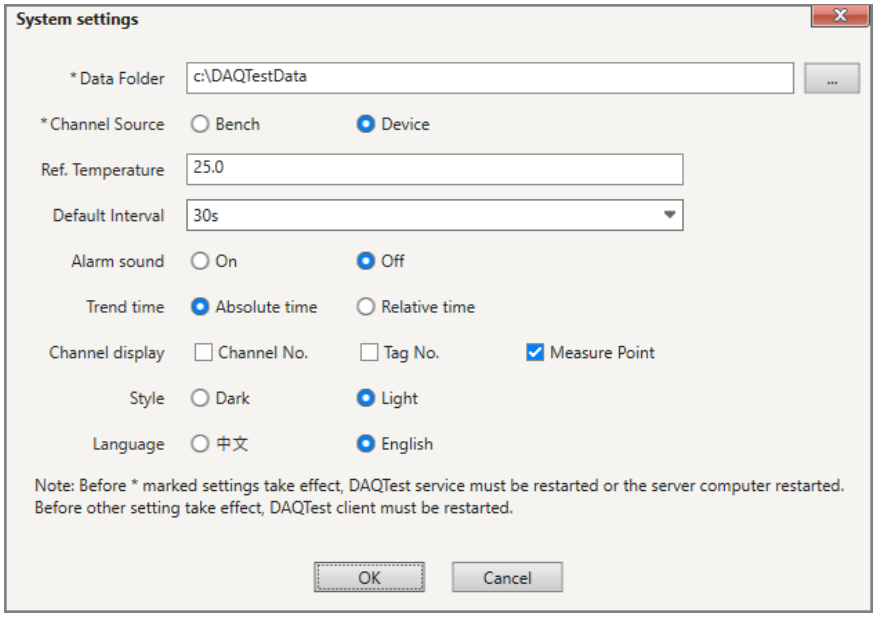


Figure 16 System Settings Dialog

・Data Folder

Only users with administrator privileges can modify the data folder.
Directory selection button is only visible when the client and server are on the same PC.

・Channel source

The test uses the source of the measurement channel. When "Bench" is selected, the test

channel used is from the settings in the relevant test bench; when "Device" is selected , the measurement channel used is The channel comes from the related equipment. The "Bench Management" node in the navigator is only visible when "Bench" mode is selected.

・Default Ref. Temperature and sampling interval

Sets the default reference temperature value and sampling interval for the test, and can also be set when creating the test.

・Trend time

Set the test display time mode, select "Absolute time" , the time axis below the test is the system time; select "relative time" , the time axis below the test is the measurement time, starting from 00:00:00.

・Channel display

Set the display mode of the channel name during the test, the default is "Measuring point name".

·Style

Set the software interface style, the default is "Light".

[Error message]

When the entered data folder does not exist, E3016 is displayed.

[Notice]

Before the new settings of data folder and test channel source take effect, you must restart DAQTest service or restart the server computer. For other items to take effect, DAQTest client must be restarted.

3.5. Backup settings

Select the [Backup Settings] button on the toolbar to 

display the Backup Settings dialog box, as shown in the figure below.

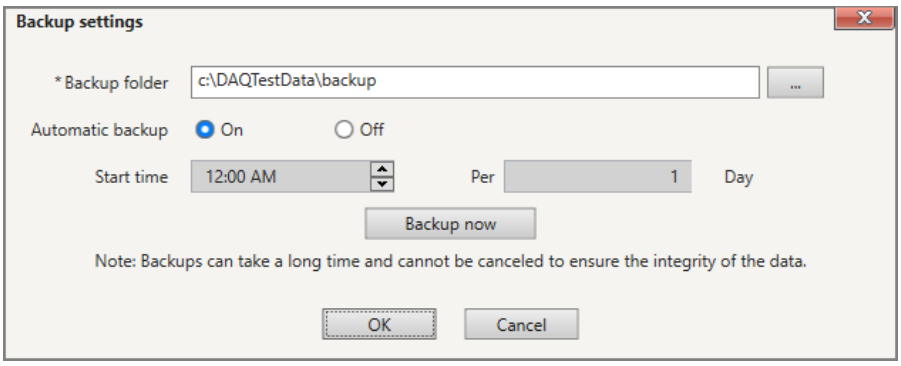


Figure 17 Backup Settings Dialog

・**Backup now (admin only)**

1. Click the "Backup now" button to display the backup confirmation dialog.

2. Select the Confirm button in the backup confirmation dialog to start the backup.

[Error message]

E3016 is displayed when the entered data backup directory does not exist.

[Description]

Since backup operations take up a lot of server resources, please try to back up when you are not testing.

・**Backup folder**

The default backup folder is in the system disk, and it is recommended to change it to a drive other than the system.

・**Content of backup**

During backup, the data files are in the form of incremental backup, and all the latest files are always kept under the backup directory.

Database files are in the form of full backups. Keep backup files under the database subdirectory under the backup directory . The file name is configdata_ yyyyMMddHHmmss .db, for example: 2015-10-21 10:11:12 The backup file generated is: configdata_20151021101112.db. The system always maintains the latest 10 full backup files. When the eleventh backup file is generated, the oldest one is deleted.

・**Restore from backup**

When restoring the database file, directly copy the backup database file to the installation directory, and then change the file name to configdata.db.

When restoring data files, copy the data files under the backup directory to the data folder. For the location of the data folder, please refer to 3.4 System setting.

Chapter 4. Manage users and roles

The DAQTest test management platform manages permissions by defining roles and assigning roles to users. The relationship between permissions, roles, and users is shown in the following example. You can assign multiple permissions to roles and assign multiple roles to users.

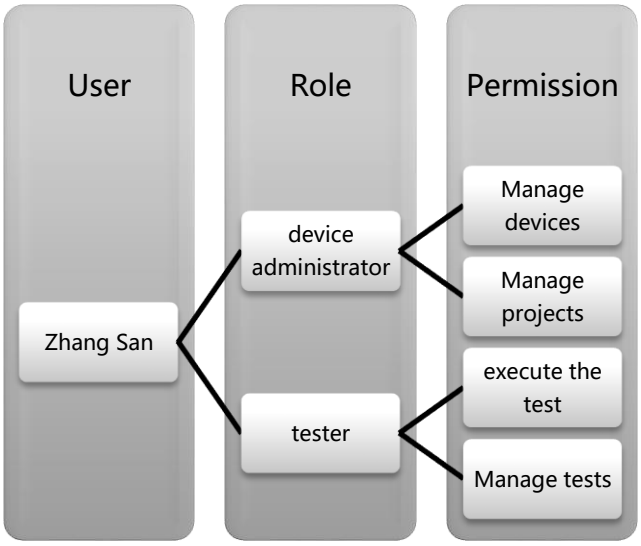


Figure 18 Example diagram of permission system for users and roles

4.1. Permission

The DAQTest test management platform has preset multiple permissions according to the operation. Please refer to the following table for detailed permissions.

Table 7 Permission table

Permission	Actions that can be performed
Start Stop	start test, stop test, cancel test, mark addition
Export Data	data export, data statistics
Create Report	report generation
Manage Folder	View a directory, create a new directory, edit a directory, delete a directory
Manage Project	View project, create new project, edit project, delete project
Manage Test	View Tests, New Tests, Edit Tests, Delete Tests
Manage Bench	View station, create new station, edit station, delete station
Manage Device	View devices, create new devices, edit devices, delete devices, monitor devices
Manage System Settings	Executable system settings
Manage Conditions	Add stop condition , modify stop condition , delete stop condition

4.2. Built-in user

The DAQTest test management platform has a built-in administrator, and the user name is admin. Username cannot be changed. Administrators have superuser privileges and are not restricted by the role and permission system. And also has: Manage users, system setting, backup setting power.

4.3. Built-in roles

The DAQTest test management platform has built-in four roles: System Administrator, Device Administrator, Test Leader, Tester, and Guest. The permissions corresponding to these four roles are shown in the following table.

Table 8 Built-in roles

Permission	System Administrator	Device Administrator	Test Leader	Tester	Guest
Manage Devices	○	○			
Manage bench	○	○			
Manage folders	○		○		
Manage projects	○		○		
Manage tests	○		○	○	
Start Stop	○		○	○	
Export Data	○		○	○	
Statistical Analysis	○		○	○	
Report Generation	○		○	○	
Mark data	○		○	○	
Acknowledge the alarm	○		○	○	
Search	○		○		
Manage conditions	○		○		
System Setting	○				
Data backup	○				
Administrative rights	○				

○ indicates that the permission is available.

4.4. View a list of roles

When selecting the [User Management]--[User] node in the navigator, the user list screen will be displayed in the workspace, as shown in the figure below.

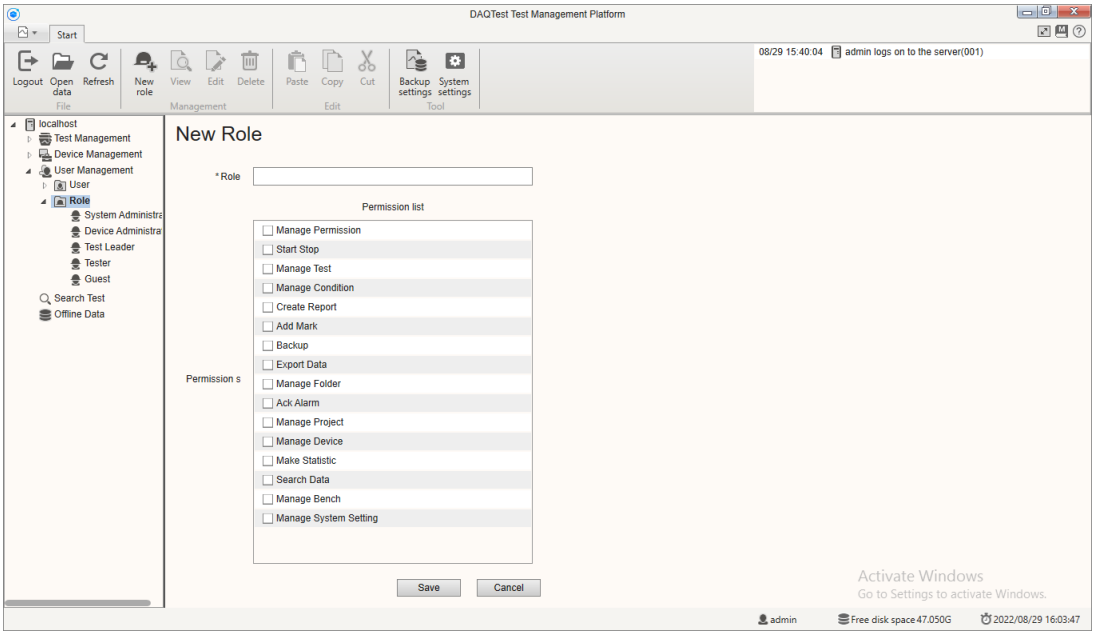


Figure 19 Character list screen

4.5. Management role

・Create a new role

1. Select the [Role] node in the navigator, and then click the [New Role] button on the toolbar 

, or right-click on the [Role] node and select [New Role] to display the new role screen.

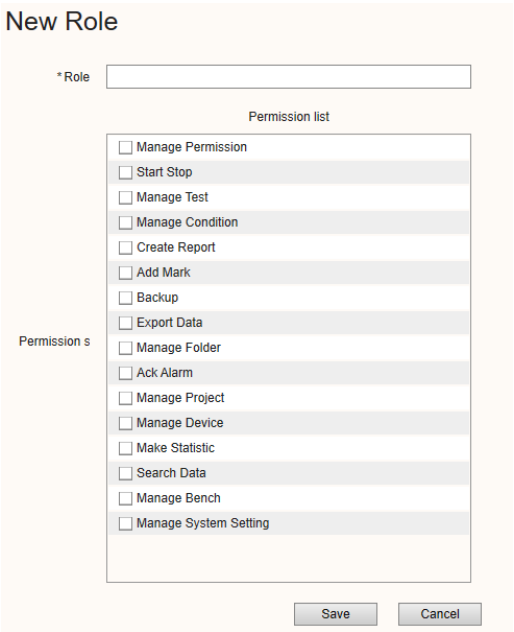


Figure 20 New role dialog

2. In the New Role dialog box, enter the role name, select the corresponding permissions, and click the Save button.
3. The newly created role is displayed in the role list.

・**Edit role**

When the corresponding [Role] node is selected in the navigator, select the [Edit] button on the toolbar 

, or right-click and select [Edit] in the right-click menu to display the character editing screen, which is the same as the new character screen.

・**Delete role**

1. Select the [Role] node in the navigator, and then click the [Delete] button on the toolbar to 

pop up the confirmation dialog W2006.
2. Click the OK button.
3.

[Description]
The maximum number of roles allowed to be registered is 50.

[Error message]
When creating a new role, if a role with the same name already exists, E3013 will be displayed.
If the number of characters has reached the maximum value, E3015 will be displayed.

4.6. View user list

When selecting the [User Management]--[User] node in the navigator, the user list screen will be displayed in the workspace, as shown in the figure below.

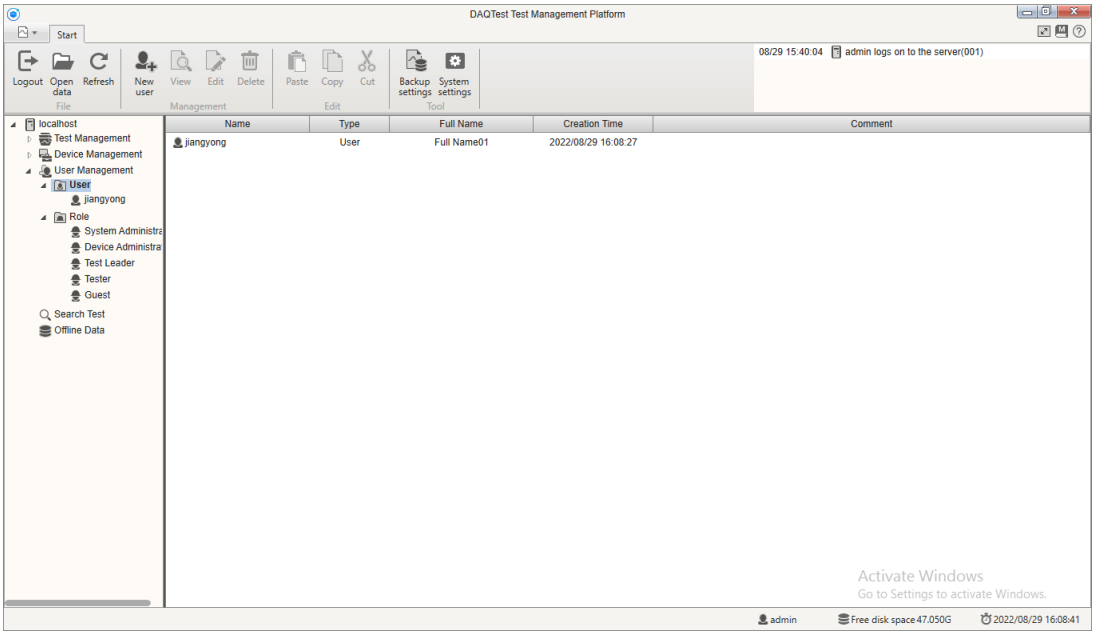


Figure 21 User list screen

4.7. Manage users

・New user

1. Select the [User Management]-[User] node in the navigator, and then click the [New User] button on the toolbar 

, or right-click on the "User" node and select [New User] to display the new user screen.

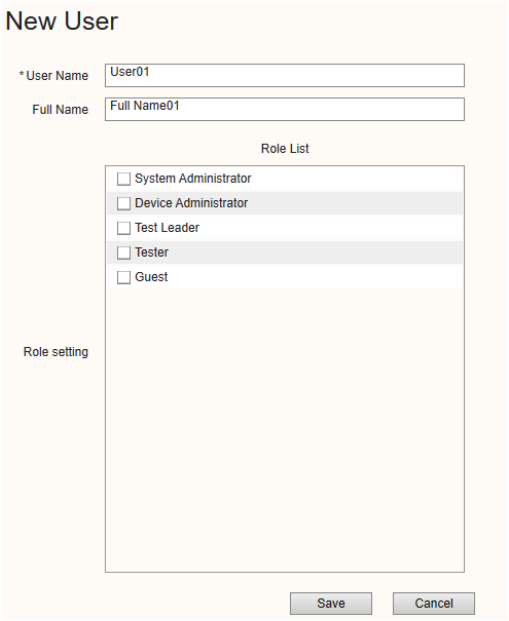


Figure 22 New User dialog

2. In the New User screen, enter the user name and full name, select the corresponding role, and then click the Save button.
3. The newly created user is displayed in the user list.

- **Edit user**

When the corresponding [User] node is selected in the navigator, select the [Edit] button on the toolbar 

, or right-click and select [Edit] in the right-click menu to display the user editing screen, which is the same as the new user screen.

- **Delete user**

1. Select the corresponding [User] node in the navigator, and then click the [Delete] button on the toolbar to 

pop up the confirmation dialog W2006.
2. Click the OK button.

[Description]

- **New user**

The password of the newly added user is empty. The user can change the password after logging in for the first time.
The maximum number of users allowed to register is 100.

[Error message]

- **New user**

If a user with the same name already exists, E3011 is displayed.
If the number of users has reached the maximum value, E3014 is displayed.

- **Delete user**

If the deleted user is logged in, the deletion fails. E3012 is displayed.

Chapter 5. Manage devices

This part includes: view device information list, create new device, edit device, view device, delete device and device monitoring, etc. This chapter describes these steps in detail.

5.1. View a list of device information

Select the [Device Management] node in the navigator, the device information list screen will be displayed in the workspace, and the related information of the added device will be displayed, as shown in the following figure.

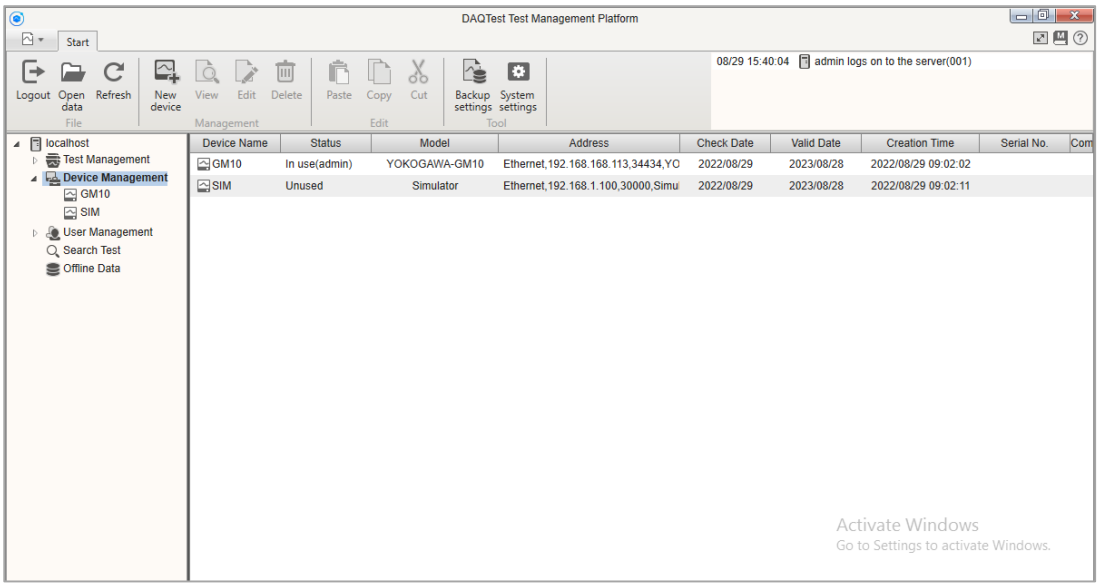


Figure 23 Device list screen

5.2. New device

1. When the [Device Management] node is selected in the navigator, select the [New Device] button on the toolbar 

, or right-click on the “Device Management” node and select [New Device] to display the new device screen, as shown in the figure below.

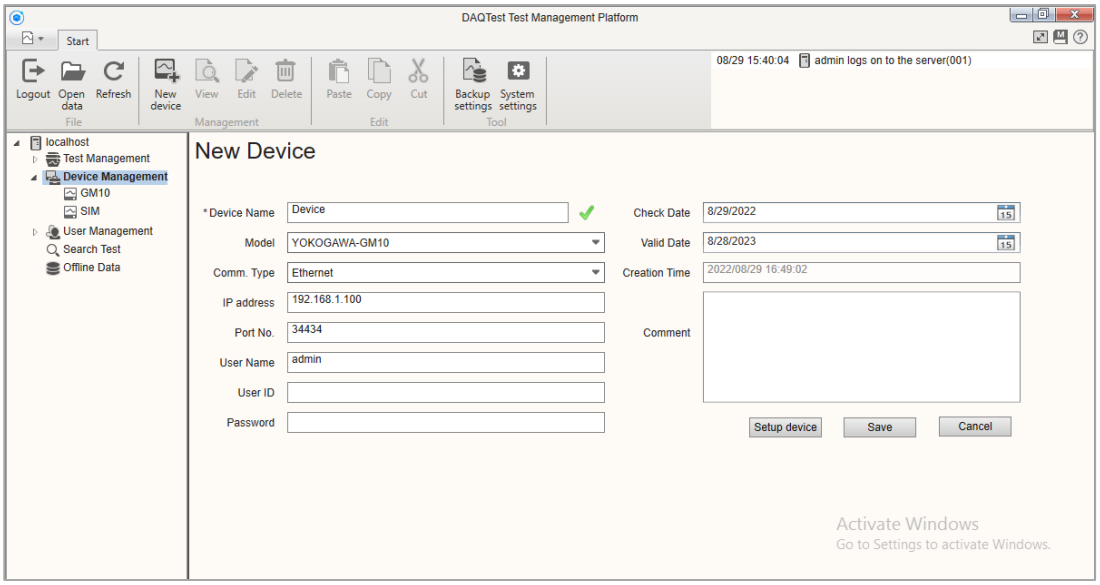


Figure 24 Device new screen

2．On the new device screen, enter a device name. The device name is checked when the device name input box loses focus. If the device name is not available, an icon will be displayed on the right side of the device name input box ✖, and if the device name is available, the ✔icon will be displayed.

3．Select the device model.

4．Enter the device connection parameters, including the communication type, host name or IP address, login information of the connected device, etc.

5．Enter the calibration date, expiration date and comment of the device.

6．Click the Save button to create the device.

[Error message]

When saving, if a device with the same name already exists, E3017 will be displayed.
During saving, if obtaining device information fails, E3018 is displayed.

5.3. Edit device

1．When the [Device] node is selected in the navigator, select the [Edit] button on the toolbar 

, or right-click and select [Edit] in the right-click menu to display the device editing screen. The editing screen is the same as the new device screen.

2．On the device edit screen, enter the device name. The device name is checked when the device name input box loses focus. If the device name is not available, an icon will be

displayed on the right side of the device name input box , and if the device name is available, the icon will be displayed.

3. Select the device model.

4. Enter the device connection parameters, including the communication method, host name or IP address, and login information of the connected device.

5. Enter the calibration date, expiration date and remarks of the device.

6. Click the Save button to keep the device information.

[Error message]

If the device no longer exists, E3100 is displayed.
When saving, if a device with the same name already exists, E3017 will be displayed.
During saving, if obtaining device information fails, E3018 is displayed.
When saving, if the device is in use, E3019 is displayed.

5.4. View device

When the [Device] node is selected in the navigator, select the [View] button on the toolbar , or right-click and select [View] in the right-click menu to display the device view screen.

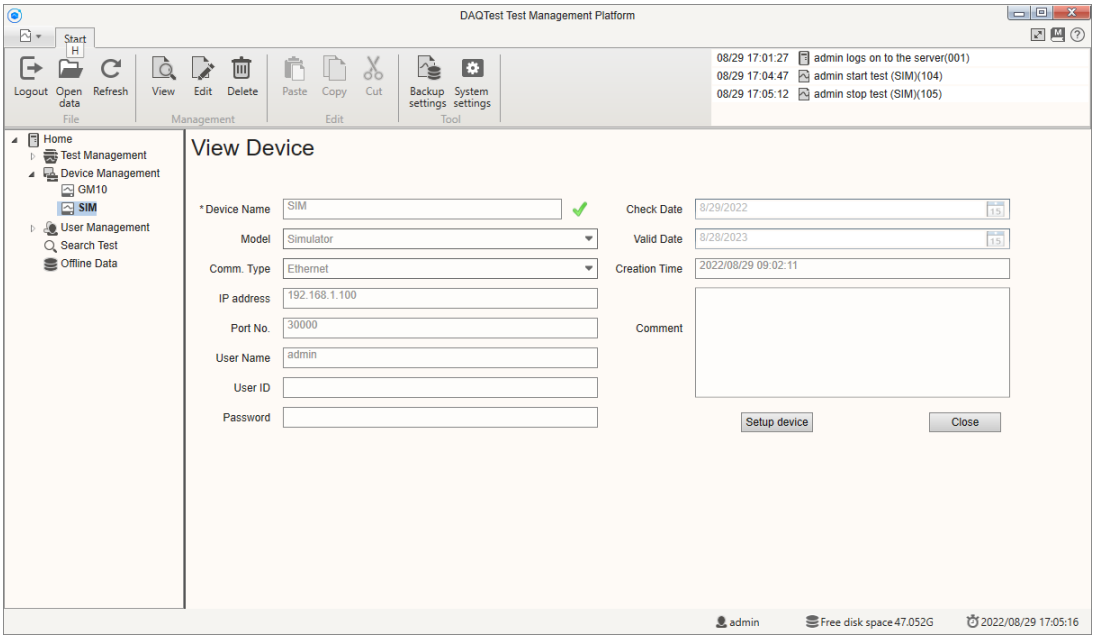


Figure 25 Device view screen

[Error message]

When viewing, if the device no longer exists, E3100 is displayed.

5.5. Delete device

1. When the [Device] node is selected in the navigator, select the [Delete] button on the toolbar 

, or right-click and select [Delete] in the right-click menu to display the deletion confirmation dialog W2001 .

2. Click the Confirm button to delete the device .

[Error message]

If the device no longer exists, E3100 is displayed.
If the device is in use, E3019 is displayed.

5.6. Monitor device

1. When the [Device] node is selected in the navigator, the device monitoring screen is displayed in the workspace.

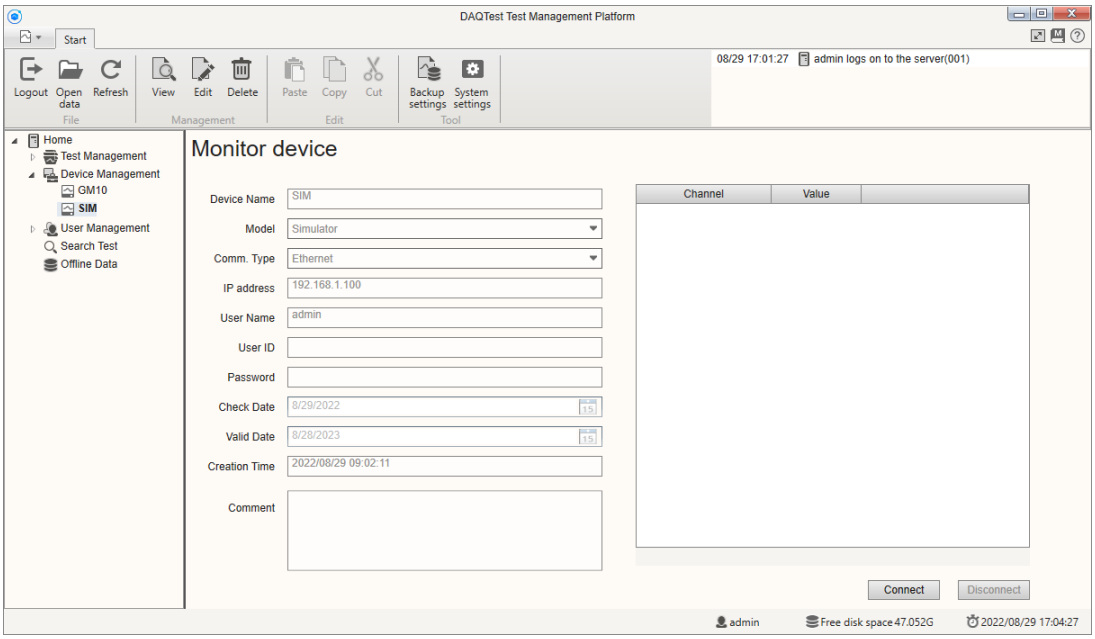


Figure 26 Device monitoring screen

2. Click the [Connect] button to start monitoring device data.

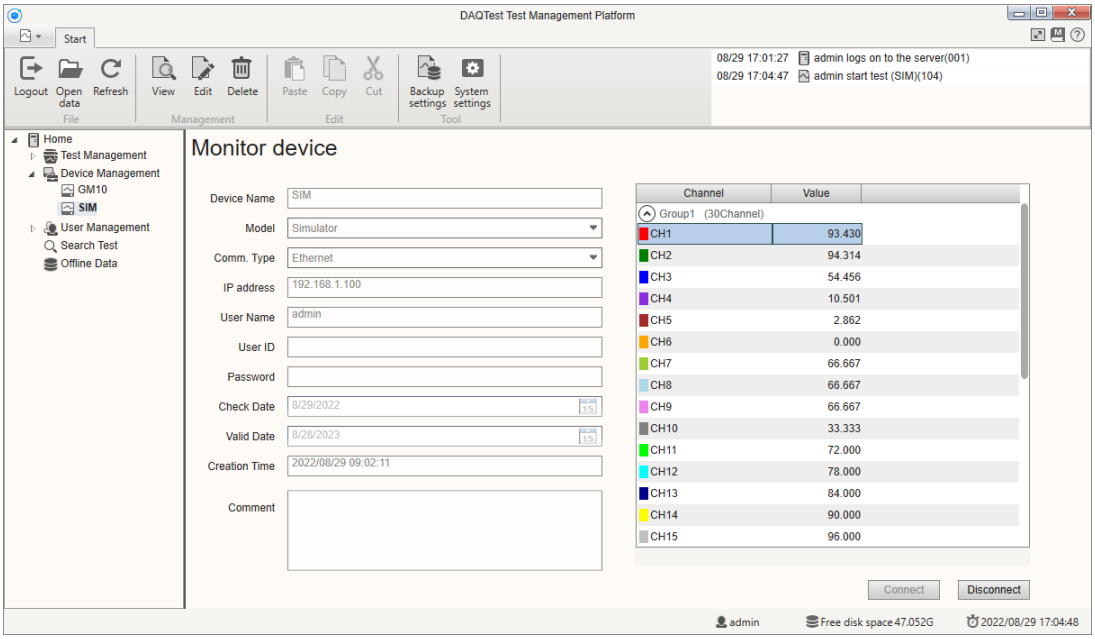


Figure 27 Monitor device data screen

3．Click the [Disconnect] button to stop monitoring device data.

4．During the monitoring process, click other nodes in the navigator, and the monitoring will stop automatically.

[Description]

・Channel data

The update cycle of channel data on the monitor screen is 1 second.
The decimal point of the measured value is the decimal point set by the device.
The measured values are displayed as follows:

Table 9Measurements

data status	Display value
Normal	Number (with decimal point)
Positive overflow	+Over
Negative overflow	-Over
Broken TC couple	Burnout
Communication failed	- OFF -
Uncertain data	Invalid
Illegal data	Illegal

[Error message]

If the device no longer exists, E3100 is displayed.
If the communication with the device fails, E3041 is displayed.

Chapter 6. Management bench

After enabling the bench function in the system settings (3.4 System Settings), you need to manage the bench, including: viewing the bench list, creating a new bench, editing a bench, viewing a bench and deleting a bench. This chapter describes these operations in detail.

6.1. New bench

1. When the [Bench Management] node is selected in the navigator, select the [New Bench] button on the toolbar , or right-click and select [New Bench] in the right-click menu to display the new bench screen, as shown in the figure below.

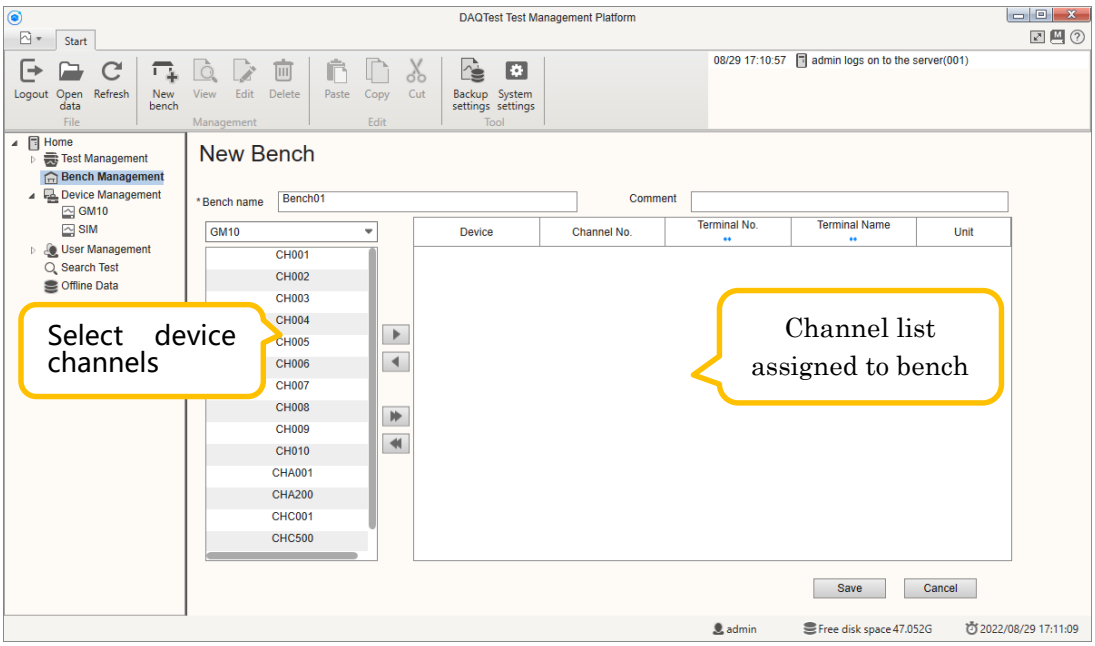


Figure 28 new screen

2. In the new bench creation screen, enter the bench name and comment.

3. Select the channel that needs to be assigned to the bench, and then click the button to assign the selected channel to the bench. or click The button assigns all channels of the selected device to the bench.

4. Select the channel from the bench's channel list and click the button to unassign it. Or click the button to cancel all channels of the device.

5. Enter the terminal number and terminal name of each terminal in the channel list .

6. Click the Save button to create the bench.

[Description]

With bench management, the measurement channel can only be selected from the corresponding bench when creating a test , not from the device.

6.2. Edit bench

1. When the [Bench] node is selected in the navigator, select the [Edit] button on the toolbar 

, or right-click and select [Edit] in the right-click menu to display the bench editing screen, which is the same as the new bench interface.
2. In the bench editing screen, enter the bench name and comment.
3. Select the channel that needs to be assigned to the bench, and then click the  button to assign the selected channel to the bench. Or click  the button to assign all channels of the selected device to the bench.
4. Select the channel from the bench's channel list and click the  button to unassign it. Or click  the button to cancel all channels of the device.
5. Enter the terminal number and terminal name of each terminal in the channel list.
6. Click the Save button to modify the bench position.

6.3. View bench

When the [Bench] node is selected in the navigator, select the [View] button on the toolbar 

, or right-click and select [View] in the right-click menu to display the bench viewing screen, as shown in the figure below.

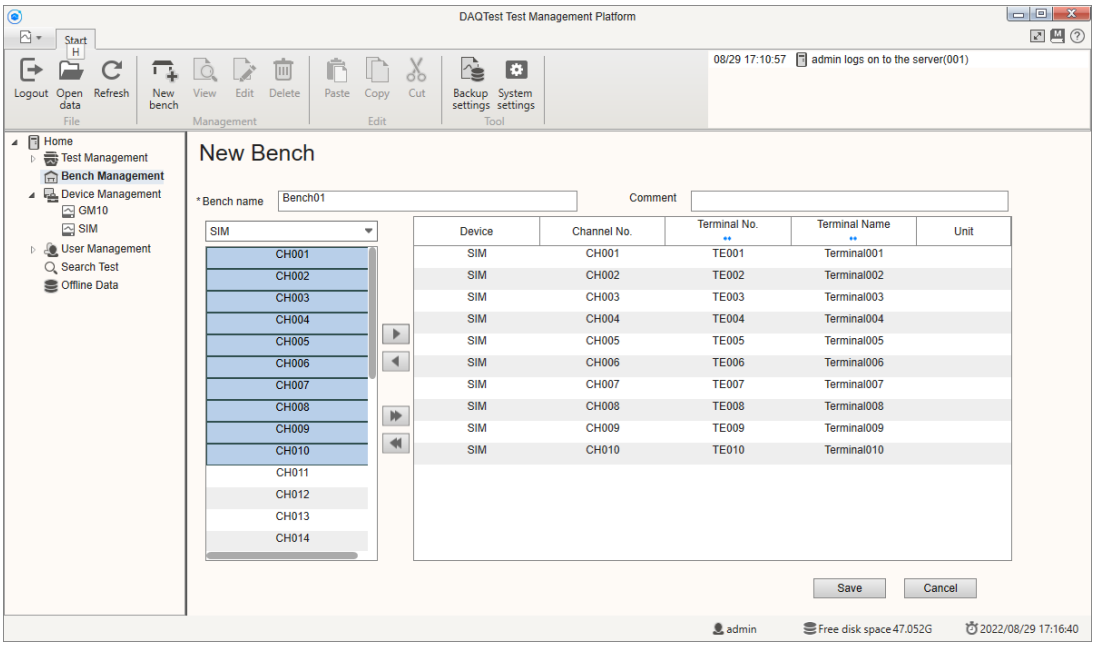


Figure 29 bench view screen

[Error message]

When viewing, if the bench no longer exists, E3100 is displayed.

6.4. Delete bench

1. When the [Bench] node is selected in the navigator, select the [Delete] button on the toolbar 

, or right-click and select [Delete] in the right-click menu, the deletion confirmation dialog W2002 will be displayed .

2. Click the Confirm button to delete the bench .

[Error message]

If the bench no longer exists, E3100 is displayed.

Chapter 7. Manage folders

This part includes: View Folder List, New Folder, Edit Folder, View Folder and Delete Folder Operations. This chapter describes the relevant steps in detail.

7.1. New folder

1. When the [Test Management] node or [Folder] node is selected in the navigator, select the [New Folder] button on the toolbar  , or right-click and select [New Folder] on the right-click menu to display the folder creation screen.

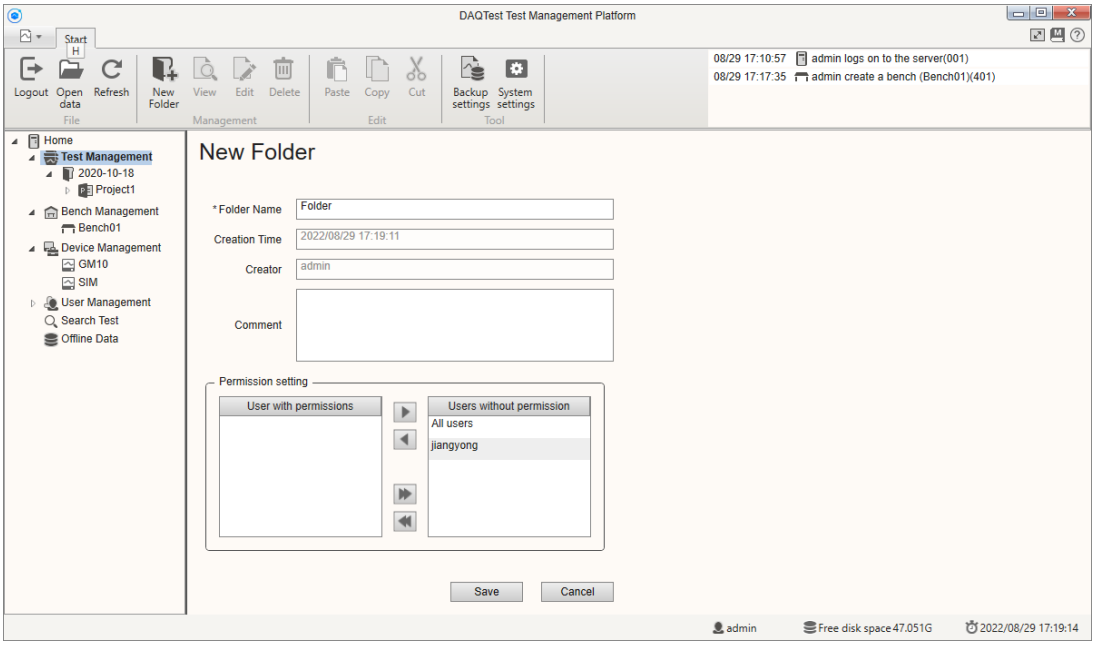


Figure 30 Folder New Screen

2. On the folder creation screen, enter a folder name and comment.

3. In the [User List] in the permission settings, select the user who needs to be authorized, and then click the  button to authorize the user.

4. Click the Save button to create the folder.

[Description]

Folders support a maximum of 100 layers.

7.2. Edit folder

1. When the [Test Management] node or [Folder] node is selected in the navigator, select the [Edit] button on the toolbar 

, or right-click and select [Edit] in the right-click menu

to display the folder editing screen, which is the same as the folder New screen.

2．On the folder edit screen, enter the folder name and comment.

3．Select the user to be authorized in the [User List] in the permission settings, and then click the button to authorize the user.

4．Click the Save button to change the folder.

[Error message]

When editing, if the folder no longer exists, E3100 will be displayed.

7.3. View folders

When the [Folder] node is selected in the navigator, select the [View] button on the toolbar View, or right-click and select [View] in the right-click menu to display the folder view screen, as shown in the figure below.

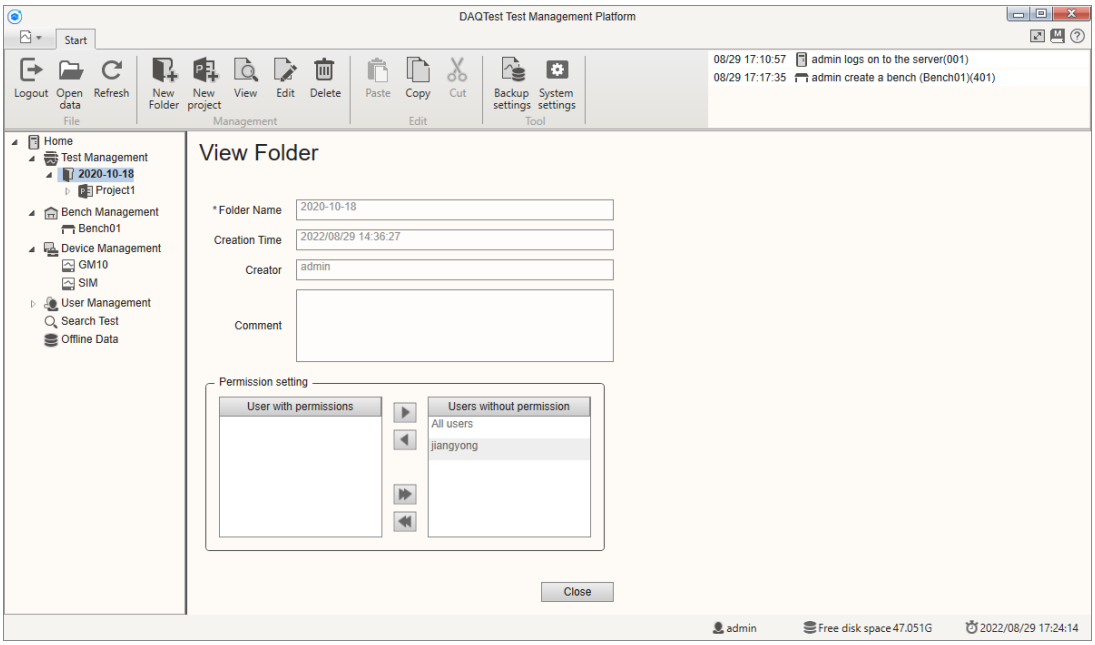


Figure 31 folder view screen

[error message]

When viewing, if the folder no longer exists, E3100 is displayed.

7.4. Delete folder

1．When the [Folder] node is selected in the navigator, select the [Delete] button on the toolbar Delete, or right-click and select [Delete] in the right-click menu to display the deletion confirmation dialog W2003 .

2．Click the OK button to delete the folder .

[Description]

Deleting a folder will cause the subfolders under the folder, the project, and the tests within the project to be deleted. Deleted content cannot be recovered.

[Error message]

If the folder no longer exists, E3100 is displayed.

When deleting a folder, if there is a running test under the folder, the deletion will be terminated when the test is deleted, and E3020 will be displayed.

Chapter 8. Manage projects

This section includes: New Project, Edit Project, View Project, and Delete Project operations, which are described in detail in this chapter.

8.1. New Project

1. When the [Folder] node is selected in the navigator, select the [New Project] button on the toolbar , or right-click and select [New Project] in the right-click menu to display the new project screen, as shown in the following figure Show.

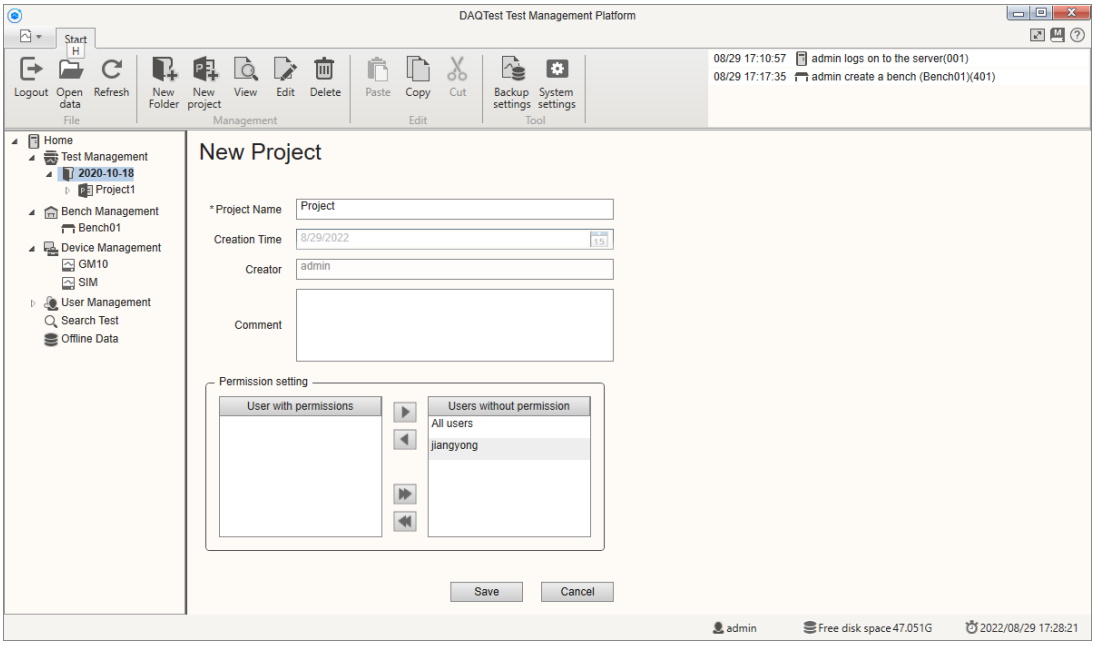


Figure 32 New project screen

2. In the New Project screen, enter the project name and comment.

3. In the [User List] in the permission settings, select the user who needs to be authorized, and then click the button to authorize the user.

4. Click the Save button to create the project.

[Description]

Project permissions default to [All users] with access permissions.

8.2. Edit project

1. When the [Project] node is selected in the navigator, select the [Edit] button on the toolbar , or right-click and select [Edit] in the right-click menu to display the project

editing screen, which is the same as the new project screen

2．On the item edit screen, enter the item name and comment.

3．In the [User List] in the permission settings, select the user who needs to be authorized, and then click the  button to authorize the user.

4．Click the Save button to change the item.

[Error message]

When editing, if the item no longer exists, E3100 is displayed.

8.3. View project

When the [Project] node is selected in the navigator, select the [View] button on the toolbar 

, or right-click and select [View] in the right-click menu to display the project viewing screen, as shown in the figure below.

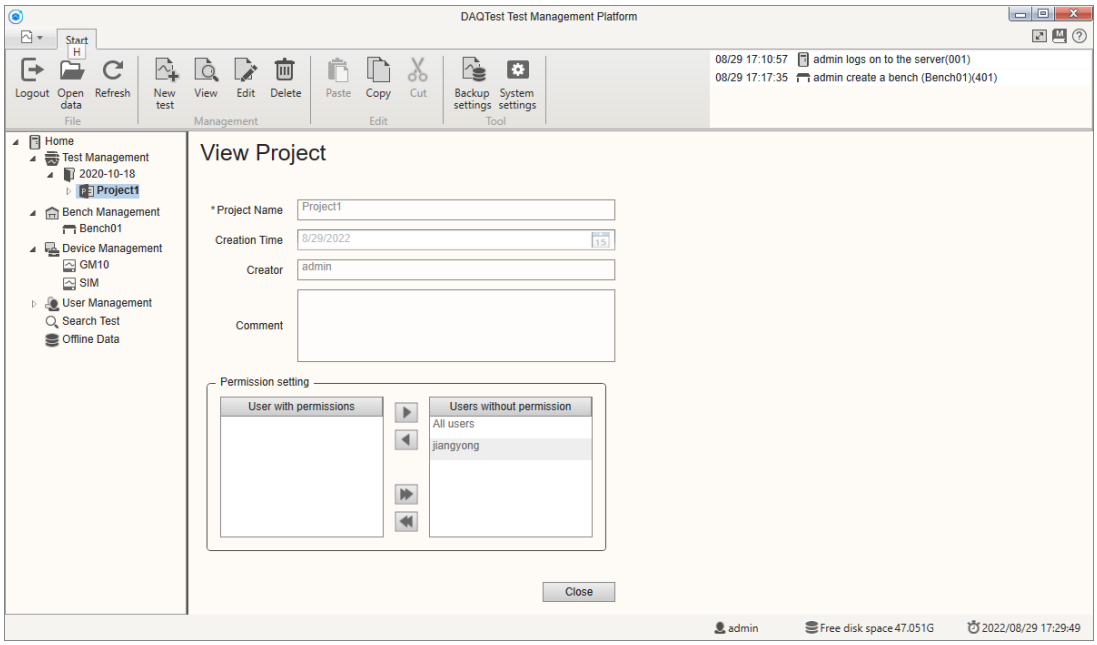


Figure 33 project view screen

[Error message]

When viewing, if the item no longer exists, E3100 is displayed.

8.4. Delete project

1．When the [Project] node is selected in the navigator, select the [Delete] button on the toolbar 

, or right-click and select [Delete] in the right-click menu, the deletion confirmation dialog W2004 will be displayed .

2． Click the OK button to delete the item .

[Description]

Deleting a project will cause all tests within the project to be deleted. Deleted content cannot be recovered.

[Error message]

If the item no longer exists, E3100 is displayed.

When deleting a project, if there is a running test under the project, the delete action will be terminated when the test is deleted, and E3020 will be displayed.

Chapter 9. Manage tests

This section includes: Viewing Test Information List, Creating New Tests, Editing Test Information, Viewing Test Information, and Deleting Test Actions. This chapter describes these operations in detail.

9.1. View a list of test information

Select the project node in the navigator, and the work area displays a list of all test information under the project, including name, type, start time, end time, interval, tester, creation time, comment, etc., as shown in the following figure.

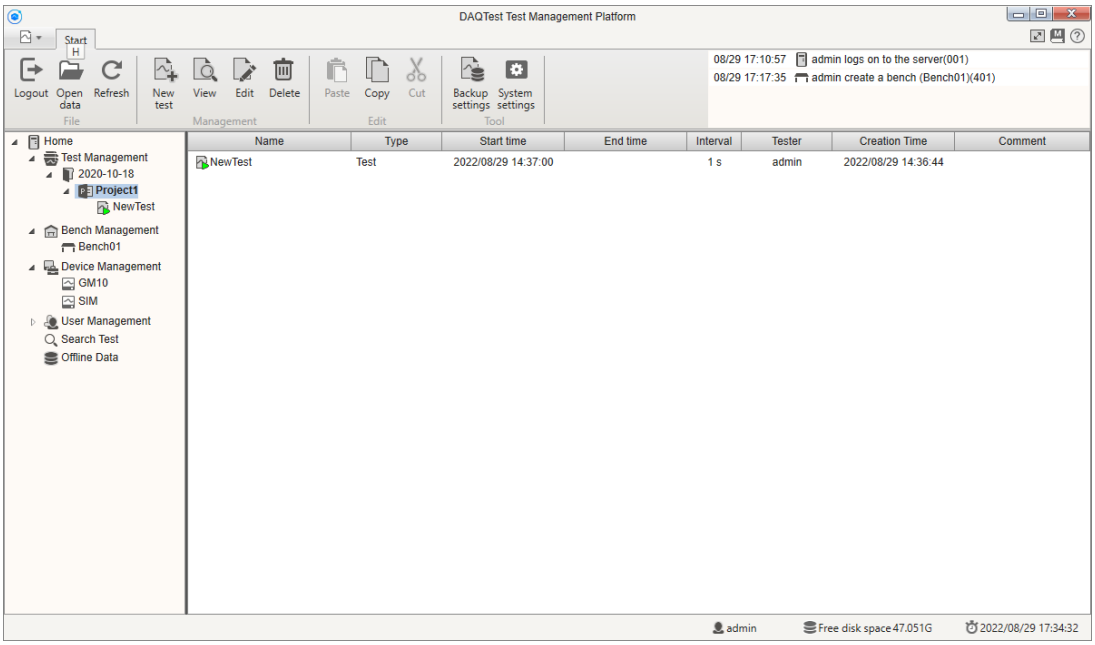


Figure 34 View test information list

Double-click a test in the list to open that test. At the same time, select the corresponding node in the navigator.

For different test states , the test icons are different, as follows:

Test is not executed:

Test is executing:

Test is completed:

The test is completed with exception:

[Description]

The test with exception refers to a test that does not end normally. For example, the test stopped due to insufficient remaining disk space.

9.2. New test

1. When the [Project] node is selected in the navigator, select the [New Test] button on the toolbar  , or right-click and select [New Test] in the right-click menu to display the new test screen, as shown in the following figure.

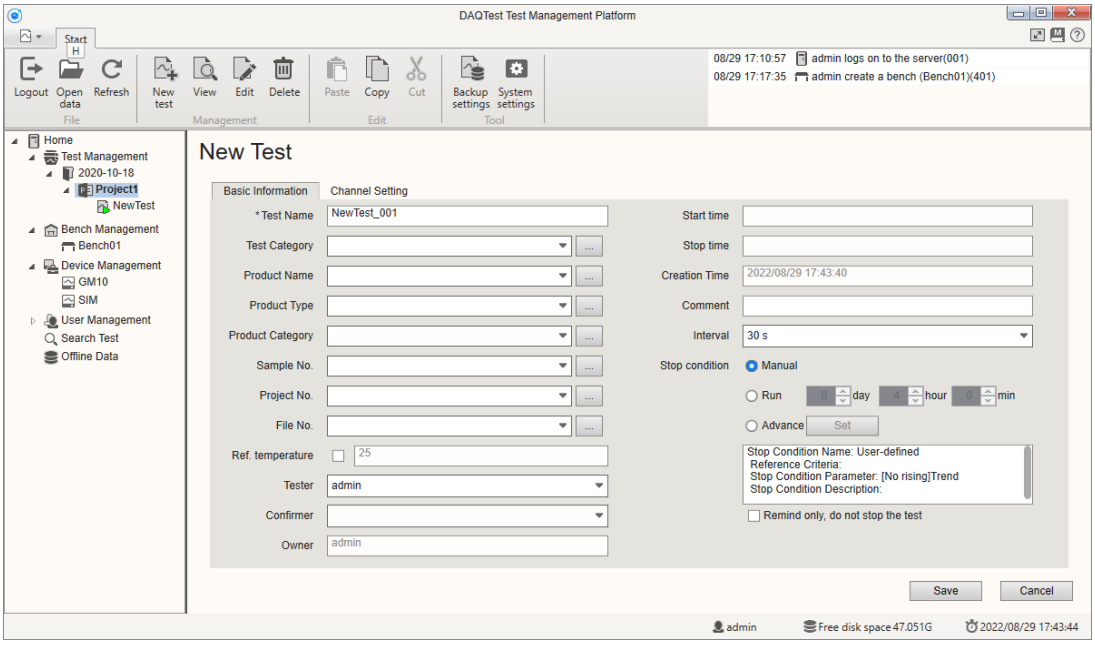


Figure 35 test new screen

2. In the new test screen, enter the test name and test related information.

3. Set stop conditions.

There are three stop conditions: manual, specified running time and advanced conditions.

When specifying running time is selected, the specified duration must be greater than 1 minute.

When Advanced is selected, the Set button becomes valid. Click the Set button to display the Stop Condition Setting dialog box. For the Stop Condition dialog box, refer to Chapter 11 Managing Stop Conditions.

When "Reminder only, do not stop the test" is checked, when the test meets the stop condition, the M1005 prompt box is displayed on the client that opens the test: "The test meets the stop condition, please stop the test manually", and the test does not stop automatically.

When "Reminder only, do not stop the test" is not selected, the test will stop automatically when the test meets the stop condition.

4. Allocate the channel used in the test.

The test supports a total of 4 test groups. Set up to 100 channels per group.

Select the channel from the device channel list, then select the right button  to assign the channel to the current group.

Select the All Right button  to assign all device channels to the current group.

Select the channel from the current group, then select the Left button  to remove the channel from the current group.

Select the All Left button  to cancel all channels.

In the device channel list, you can check "Hide the used terminal/channel", then the assigned channel will not be displayed in the device channel list.

Users can edit the "Measurement point" in the channel list.

The channel configuration table is shown in the figure below.

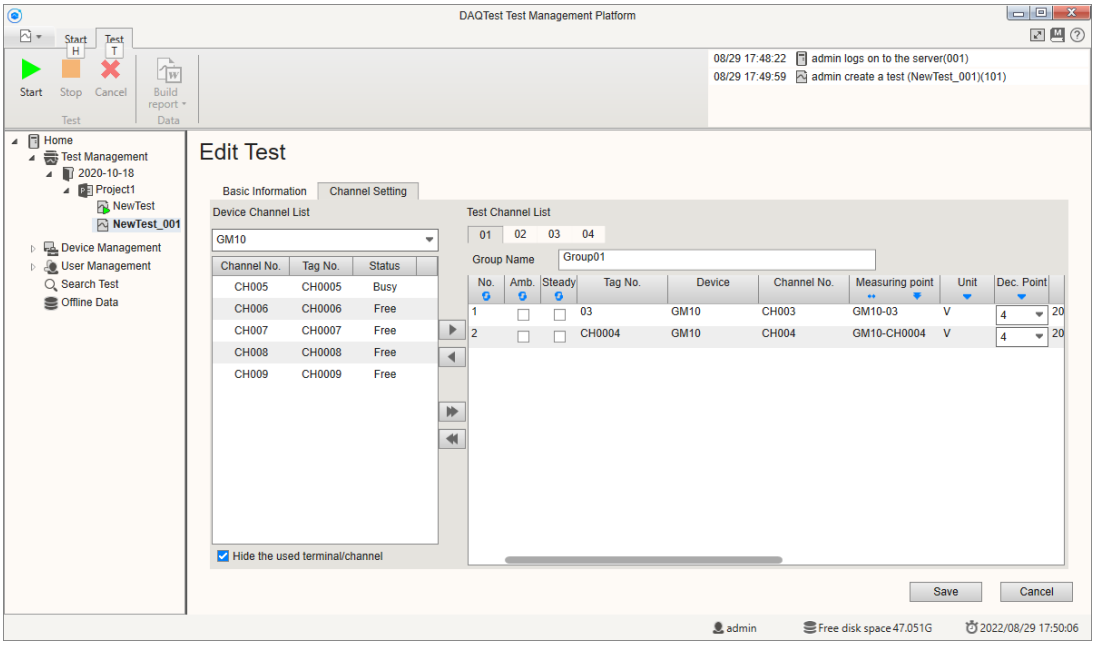


Figure 36 channel configuration table

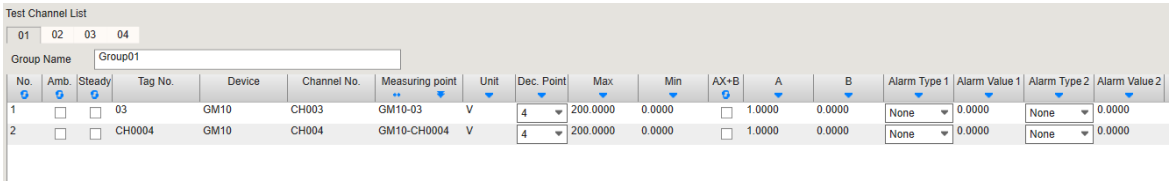


Figure 37 Detailed test channels configuration

5. Click the Save button to create the test.

[Description]

- **Ref. temperature**

The reference temperature is used to calculate the regression temperature for the temperature rise. To calculate the regression temperature, please tick the reference temperature and set the reference temperature value.

- **Tester, confirmer and owner**

The owner of the test is the user who created the test and cannot be modified. Testers can be set when tests are not executed. Confirmers can be set after the test is complete.

- **Ambient temperature channel**

Each test group can set up to 3 ambient temperature channels. When setting multiple ambient temperature channels, the ambient temperature value uses the average value of multiple ambient temperature channels.

- **Steady channel**

When adding a channel to a test group, the temperature channel is automatically set as the steady channel by default. If you want this channel not to perform stable judgment, you can uncheck the stable judgment setting of this channel.

- **Channel decimal point, maximum and minimum values**

The default values of channel decimal point, maximum value and minimum value use the device channel setting value, which can also be modified by the user, but the modified settings will not be sent to the device and are only used in this test.

- **AX+B**

When you want to correct the device channel data, you can check AX+B, and then set the A and B coefficients.

Measured value in test = A × (Channel value in device) + B

- **Alarm setting**

Two levels of alarms can be set for each channel of the test. Note that this alarm has nothing to do with the alarms in the device.

9.3. Edit test

1. When the [Test] node is selected in the navigator, select the [Edit] button on the toolbar 

, or right-click and select [Edit] in the right-click menu to display the test editing screen, which is the same as the new test screen.

2. In the test edit screen, enter the test name and test basic information.

3. Set stop conditions in the test.

4. Allocate the channel used in the test.

5．Click the Save button to change the test.

9.4. View test settings

When the [Test] node is selected in the navigator, select the [View] button on the toolbar 

, or right-click and select [View] in the right-click menu to display the test view screen. The test view screen is basically the same as the test new screen, except that all items are read-only. The test view screen is shown in the figure below.

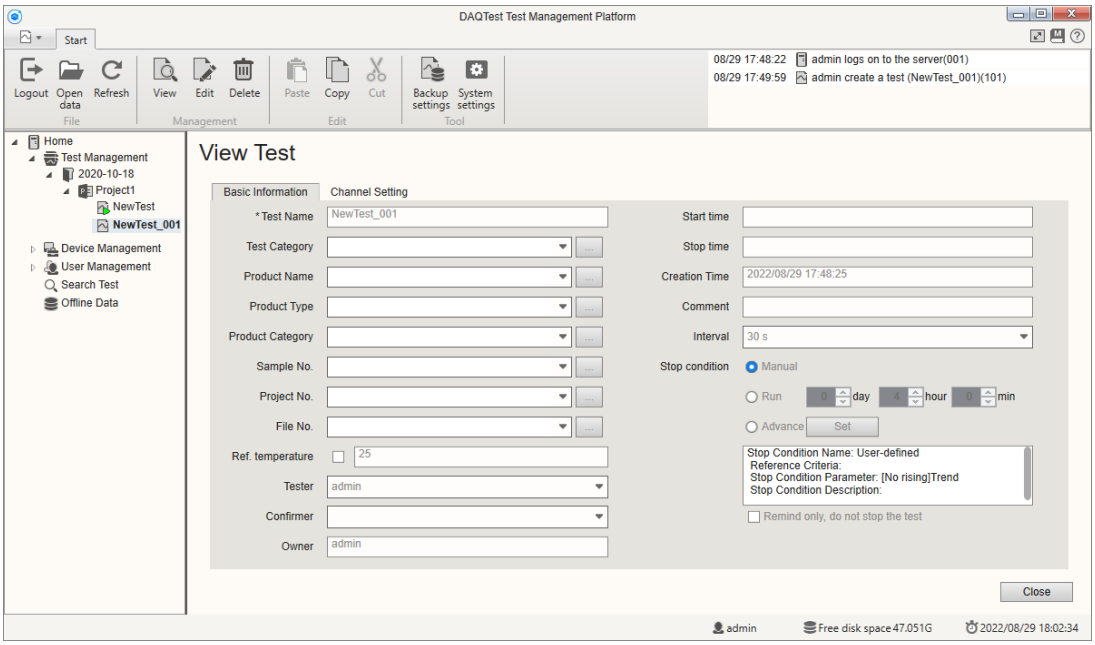


Figure 38 Test View Screen — Basic Information

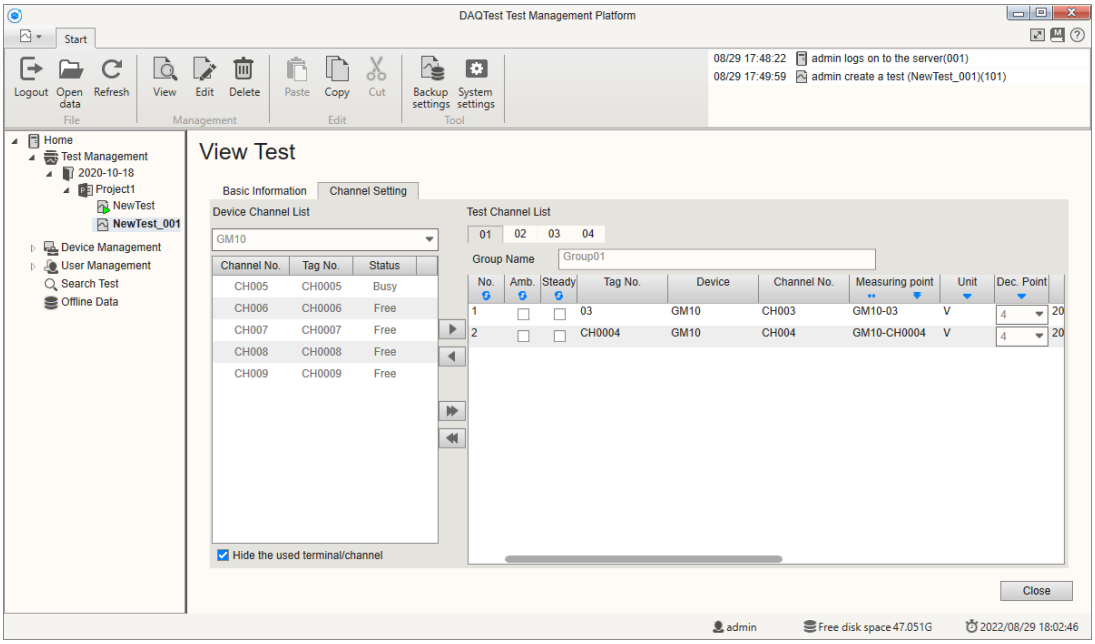


Figure 39 Test View Screen — Channel Setup

[Error message]

When viewing, if the test no longer exists, E3100 is displayed.

9.5. Delete test

1. When the [Test] node is selected in the navigator, select the [Delete] button on the toolbar 

, or right-click and select [Delete] in the right-click menu to display the deletion confirmation dialog W2007.

2. Click the Confirm button to delete the test.

[Error message]

If the test no longer exists, E3100 is displayed.

If the test is being opened by another user, E3021 is displayed and the test cannot be deleted.

If the test is running, E3022 is displayed and the test cannot be deleted.

9.6. Copy and paste tests

By copying and pasting tests, you can quickly create a new test. Except for the test name and creation time, other information in the new test is the same as the original test

1. When the [Test] node is selected in the navigator, select the [Copy] button on the toolbar  , or right-click and select [Copy] in the right-click menu, or press the copy shortcut key Ctrl + C to copy the test.

2. Then select the [Paste] button on the toolbar, or right-click and select the [Paste] button in the right-click menu  , or press the paste shortcut key Ctrl + V to paste the test, the test name is changed to the original test name plus the number, the user can re-edit the test and change the test name.

Chapter 10. Execute the test

10.1. Start, stop and cancel test

・Start the test

1. When the [Test] node is selected in the navigator, the toolbar automatically switches to the [Test] tab. If the test has not been executed, the unstarted test screen is displayed in the work area.

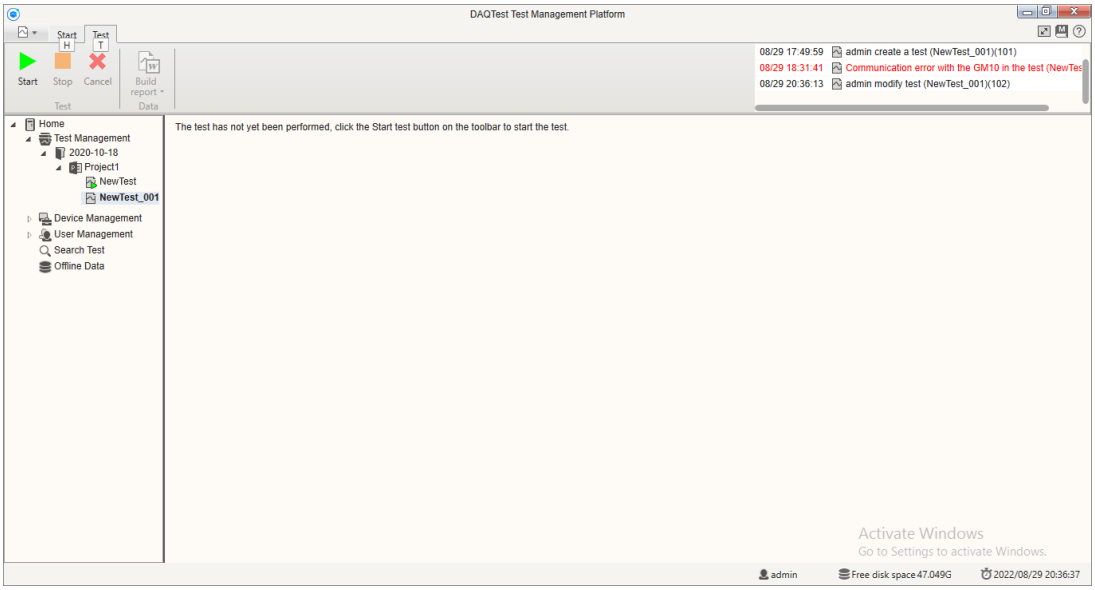


Figure 40 Test screen (not started)

2. Click the [Start] button ▶ on the toolbar to start the test. The running test screen is displayed in the work area.

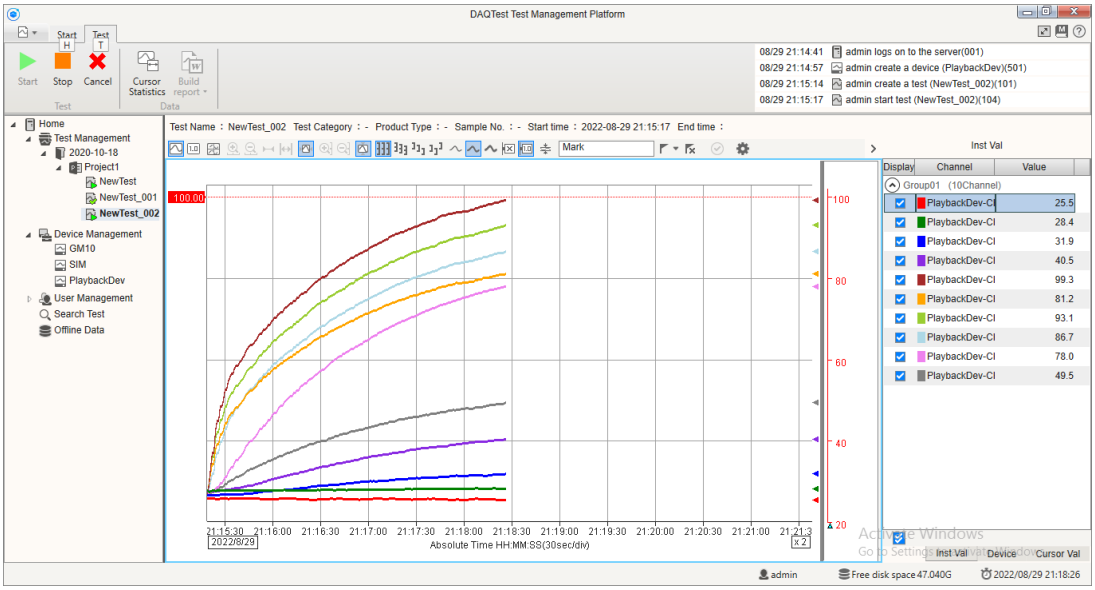


Figure 41Test screen (running)

3．In other clients, the working area of the client that has opened the test also starts to display the running test screen.

・Stop the test (manually)

1．Click the [Stop] button on the toolbar to display the stop test confirmation dialog M1003.

2．Click the OK button in the confirmation dialog to stop the test. The completed test is displayed in the work area.

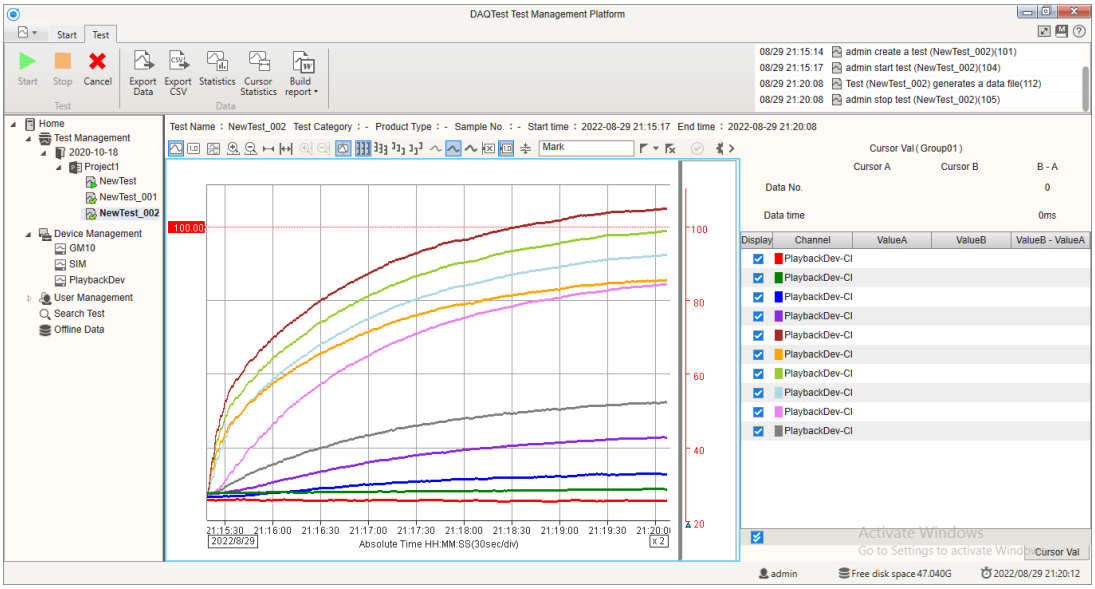


Figure 42 Test screen (completed)

3．In other clients, the completed test screen also starts to be displayed in the workspace of the client that has opened the test.

・Stop test (automatic)

1．When the test meets the conditions for automatic stop, and the test setting does not select "Reminder only, do not stop the test", the test stops automatically.

2．The completed test is displayed in the work area.

3．In other clients, the completed test screen also starts to be displayed in the workspace of the client that has opened the test.

・Cancel the test

1. Click the [Cancel] button ✖ on the toolbar to display the cancel test confirmation dialog M1004.
2. Click the OK button in the confirmation dialog to cancel the test. An unstarted test is displayed in the work area.
3. In other clients, the unstarted test screen also starts to be displayed in the workspace of the client that has opened the test.

[Description]

Tests that have been stopped cannot be restarted. Cancel the test if you need to restart the test. **Note: After canceling the test, the test data will be deleted and cannot be recovered.**

During test running, when the navigator switches to another node, the test running screen displayed in the workspace is closed, but the test in the server does not stop and continues to run.

[Error message]

When starting the test, if there is a communication error with the connected instrument, the message "There is a communication error in the test connected instrument, do you want to continue the test?" is displayed. Click the OK button to continue the test, and click the Cancel button to cancel the test.

When starting a test, if the test no longer exists, E3100 is displayed.

When starting the test, if the device used in the test has been deleted, E3023 will be displayed, and the test cannot be started.

10.2. Monitor test

During a test run, the workspace displays the running test screen. Various monitoring data are displayed in real time on the running test screen. Displays the data trend of each measurement group in the form of a trend graph, displays the real-time value of each channel in the form of a list in the status area, or displays the status of each device in the form of a list. The running test screen is shown in the following figure.

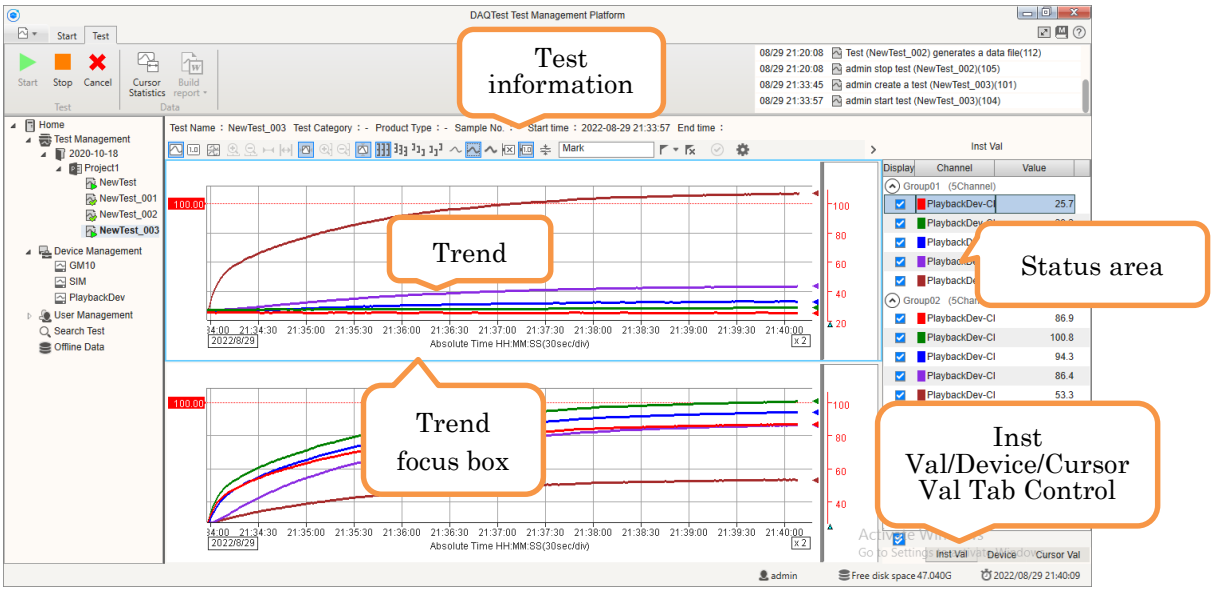


Figure 43 Test screen (running)

10.2.1. Trend operation

・Select a trend graph

Each group in the test will display a corresponding trend graph. When there are multiple trend graphs in the test screen, click any area in the trend graph, and the trend graph will become selected. The focus box of the trend graph appears at the outline of the trend graph. Then the operations on the trend graph are for the trend graph in the focus frame. The focus box of the trend graph is shown above.

・Scrolling trend graph

Drag the horizontal scroll bar of the trend graph to move the waveform.
Hold down the Ctrl key and click and drag the left mouse button to move the waveform.

・Zooming the trend graph on the X axis

When the trend graph has focus, scroll the mouse wheel to adjust the X-axis scaling.

・Zooming the trend graph on the Y axis

Move the mouse to the Y-axis on the right side of the trend graph, and scroll the mouse wheel to adjust the Y-axis scale up and down.

Move the mouse to the Y-axis on the right side of the trend graph, hold down the left mouse button and drag up and down to adjust the Y-axis area. Double-click the left mouse button to restore the default state.

Move the mouse to the Y-axis on the right side of the trend graph, click the left mouse button to enlarge the Y-axis, and click the right mouse button to reduce the Y-axis.

・Switch the scroll mode of the trend graph

The scrolling mode of the trend graph includes realtime mode (Realtime) and playback mode (Playback).

In real-time mode, the waveform scrolls automatically, and the latest data is always displayed on the right side of the trend graph. The trend horizontal scroll bar is always at the far right.

In the playback mode, although the waveform data is automatically updated, the waveform stops scrolling automatically.

Realtime mode is automatically entered when the test starts.

Switch from realtime mode to playback mode:

When the mouse is clicked in the trend graph and the cursor is displayed, the trend graph enters the playback mode.

When the scroll bar is moved and the scroll bar leaves the far right end, the trend graph enters the playback mode.

Switch from playback mode to realtime mode:

When you move the scroll bar and scroll the slider to the far right, the trend graph enters the realtime mode.

When entering the playback mode, and there is no operation for 5 minutes, it will automatically enter the realtime mode.

・Switch the time display method of the trend graph

The time display mode of the trend graph includes: absolute time and relative time.

The time display mode can be set in the system setting dialog box.

You can also hold down the Ctrl key and double-click the left mouse button on the time axis of the trend graph to quickly switch the time display mode.

・Move the cursor in the trend graph

Click the left button of the mouse in the waveform area to directly set the cursor A position.

Click the right mouse button in the waveform area to directly set the cursor B position.

Click the left mouse button in the waveform area of the trend graph, and cursor A appears. Press and hold the left mouse button to move the mouse, and then release the left mouse button, and cursor B appears.

Move the mouse to the cursor position, then hold down the left mouse button to move the cursor position.

The cursor of the trend graph is shown in the figure below.

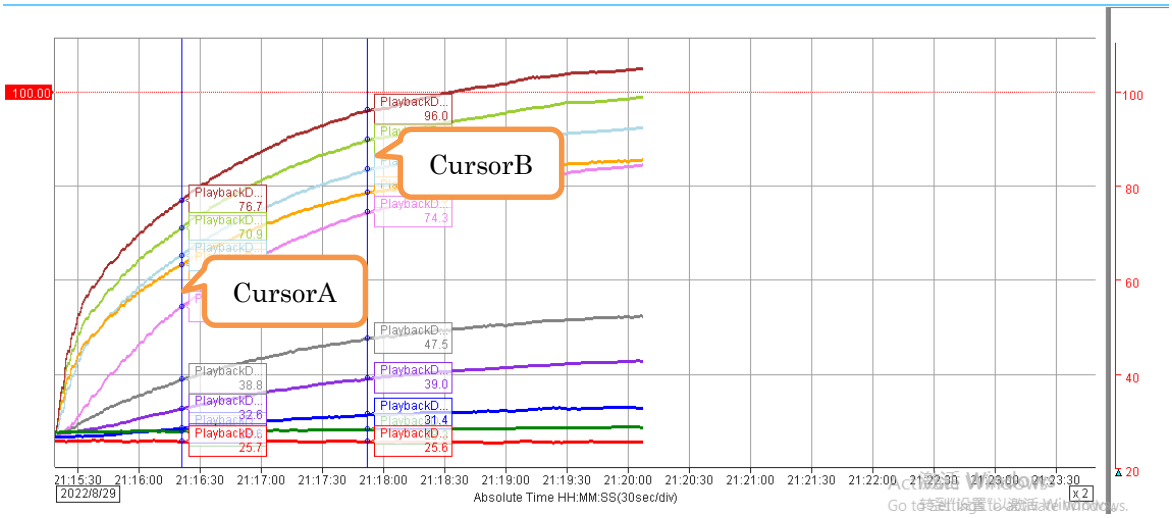


Figure 44 Cursor

10.2.2. Trend Window Toolbar

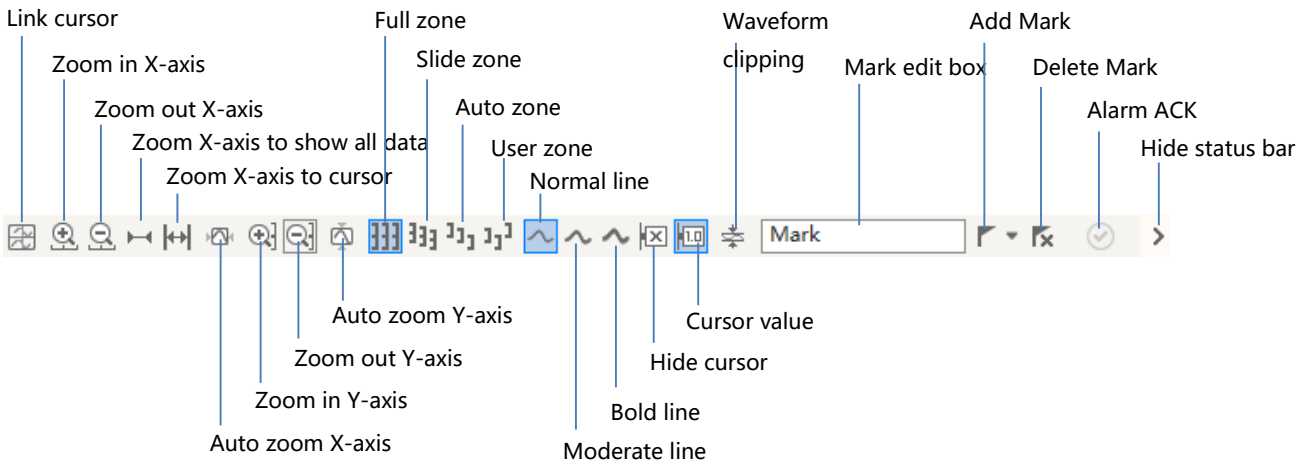


Figure 45 Trend graph window toolbar

・Cursor synchronization between groups

Select the [Link cursor] button to move the cursor position in one group, and move the cursor position in other groups synchronously.

・Adjust the X-axis scale

1. Click the [Zoom in X-axis] button in the tool bar of the trend graph window to zoom in on the X-axis.
2. Click the [Zoom out X-axis] button in the tool bar of the trend graph window to zoom out the X-axis.
3. Click the [Zoom X-axis to show all data] button in the tool bar of the trend graph window, the X-axis automatically adjusts the zoom level and displays all the curves at the maximum scale.
4. Click the [Zoom X-axis to cursor] button in the tool bar of the trend graph window, the X axis will automatically adjust the zoom ratio to display the curve between cursor A and cursor B.
5. Click the [Auto zoom X-axis] button in the tool bar of the trend graph window. When new data is updated, the X axis will automatically adjust the zoom ratio to display all the curves. At this point the other adjust X-axis buttons become unavailable.
6. The level of X-axis zoom in/out is divided into: 1/10000, 1/5000, 1/2000, 1/1000, 1/500, 1/200, 1/100, 1/50, 1/20, 1/10, 1/5, 1/2, 1, 2, 5, 10, 20.

- **Adjust the Y-axis scale**

1. Select the channel in the channel information list on the right side of the screen, and then click the [Zoom in Y-axis] button in the tool bar of the trend graph window to select the channel's Y-axis zoom.
2. Select the channel in the channel information list on the right side of the screen, and then click the [Zoom out Y-axis] button in the trend graph window toolbar to select the channel's Y-axis zoom.
3. Click the [Auto zoom Y-axis] button in the tool bar of the trend graph window. When new data is updated, the Y-axis will automatically adjust to display all the curves.
4. Y-axis zoom in/out levels are divided into: 1/10, 1/5, 1/2, 1, 2, 5, 10.

- **Adjust the Y-axis zone**

Click [Full Zone] , [Slide Zone] , [Auto Zone] or [User Zone] button on toolbar of trend graph, the zone of Y-axis will be adjusted automatically. Or, you can press and hold the Ctrl key, double click the left mouse button to switch the display zone types of the Y-axis. The display results of the various zones are as follows.

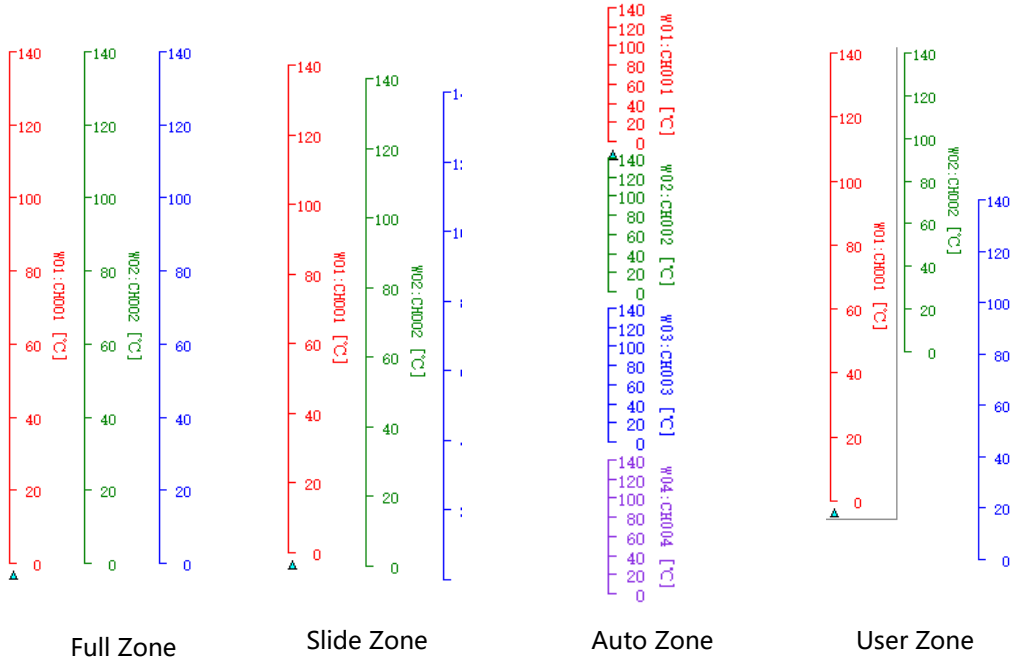


Figure 46 Y-axis zone

The operations of user zone are: First, change the display zone type of Y-Axis to [User Zone] , then press and hold the left mouse button, drag it up or down to adjust the size of Y-Axis zone. You can double click the left mouse button on Y-axis to restore the Y-axis zone to the maximum.Scroll the mouse wheel on the Y axis to adjust the Y axis scale.

・Adjust curve line thickness

Click the [Normal Line] , [Moderate Line] or [Bold Line] button on the toolbar of trend graph to auto adjust the thickness of the lines in the trend graph.

・Hide cursor

Click the [Hide Cursor] button on the toolbar of trend graph to hide the cursor in the trend graph.

・Show/hide cursor value

Click the [Cursor Value] button in the tool bar of the trend graph window to display/hide the cursor value.

・Waveform clipping

Click the [Clip] button in the tool bar of the trend graph window. When the curve exceeds the visible area of the trend graph, draw a straight line at the top of the trend graph to indicate that it exceeds the top area, and draw a straight line at the bottom of the trend graph to indicate that it exceeds the bottom area.

・Add a single group mark to the focus trend graph

1. In the [Mark] text box on the tool bar of the trend graph window, input the mark content you want to add.
2. [Add Mark] button Select the [Single Group Mark] button , then click the button, if there is a cursor in the trend, add the input mark at the cursor A position. If there is no cursor in the trend, add the entered mark at the position of the latest data point.

・Add all group marks to all trend graphs

1. In the [Mark] text box on the tool bar of the trend graph window, input the mark you want to add.

2. [Add Mark] button Select the [All Group Mark] button , and then click the button, if there is a cursor in the trend, the input mark will be added at the cursor A position. If there is no cursor in the trend, add the entered mark at the position of the latest data point.

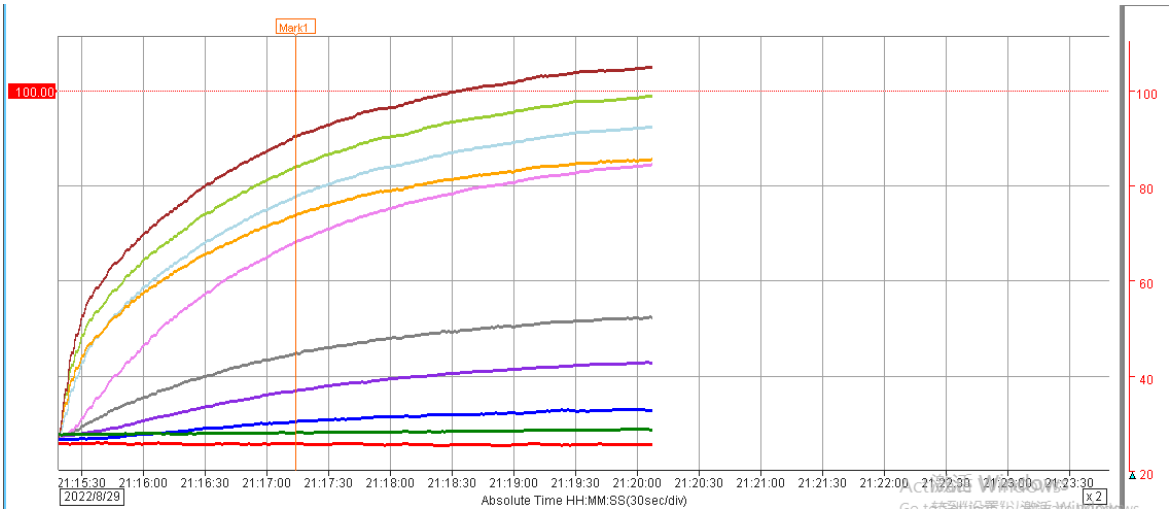


Figure 47 Single group and all group mark

- **Added a single-point mark to the focus point trend graph**

1. In the [Mark] text box on the tool bar of the trend graph window, input the mark you want to add.
2. [Add Mark] button Select the [Single Mark] button , then click the button, if there is a cursor in the trend, the input single mark will be added at the cursor A position. If there is no cursor in the trend, add the entered mark at the position of the latest data point. The default single-point marker is associated with the first displayed waveform.
3. Press and hold the left mouse button on the single-point mark's text box, and then move the mouse position to adjust the position of the single-point mark's text box.

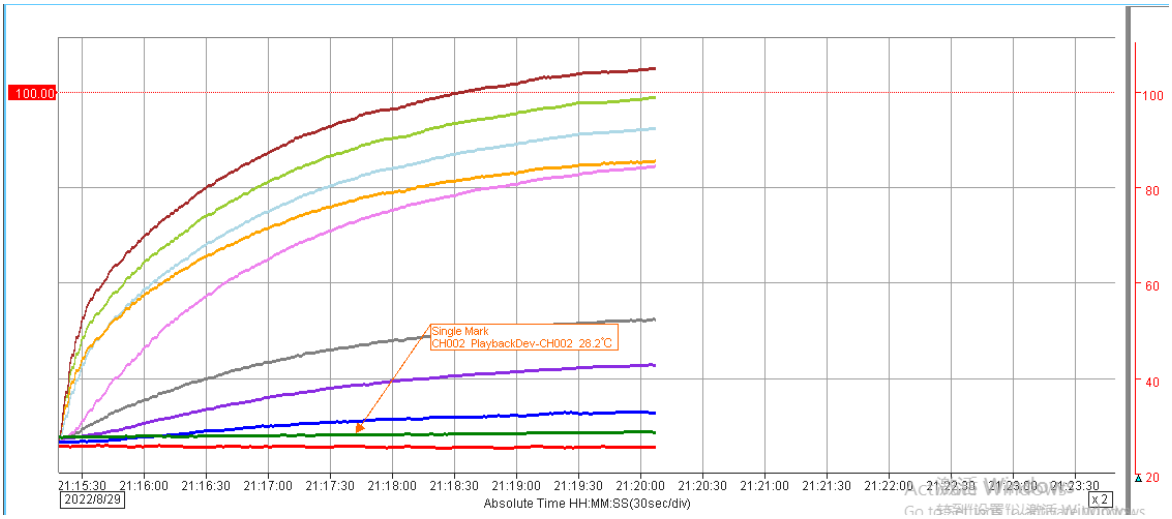


Figure 48 Single-point mark

- **Added range marks to the focus point trend graph**

1. In the [Mark] text box on the tool bar of the trend graph window, input the mark you want to add.
2. [Add mark] button Select the [Range Mark] button , then click the button, if there is a cursor in the trend, add a section mark between cursor A and cursor B.
3. Move the mouse to the left arrow of the range mark, hold down the left mouse button and move the mouse position left and right to adjust the left position of the range mark. Similarly, move the mouse to the right arrow of the range mark, hold down the left mouse button and move the mouse position left and right to adjust the right position of the range mark. Move the mouse to the horizontal arrow line of the range mark, hold down the left mouse button and move the mouse position up and down to adjust the position of the range mark text box.

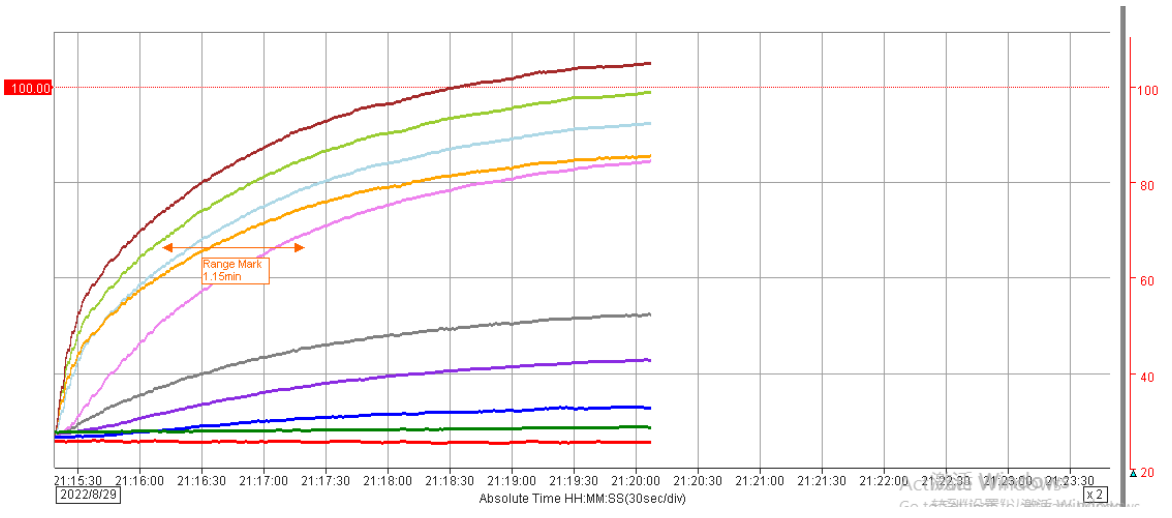


Figure 49 Range mark

・Add vertical mark to the focus trend graph

1. In the [Mark] text box on the tool bar of the trend graph window, input the mark you want to add.
2. [Add Marker] button Select the [Vertical Marker] button , then click the button, if there is a cursor in the trend, add the input vertical mark at the cursor A position. The default vertical marker is associated with the first displayed waveform.
3. Move the mouse to the up and down arrow position of the vertical mark, hold down the left mouse button and move the mouse position up and down to adjust the up and down position of the vertical mark. Move the mouse to the vertical line of the vertical mark, hold down the left mouse button and move the mouse position left and right to adjust the horizontal position of the vertical mark.

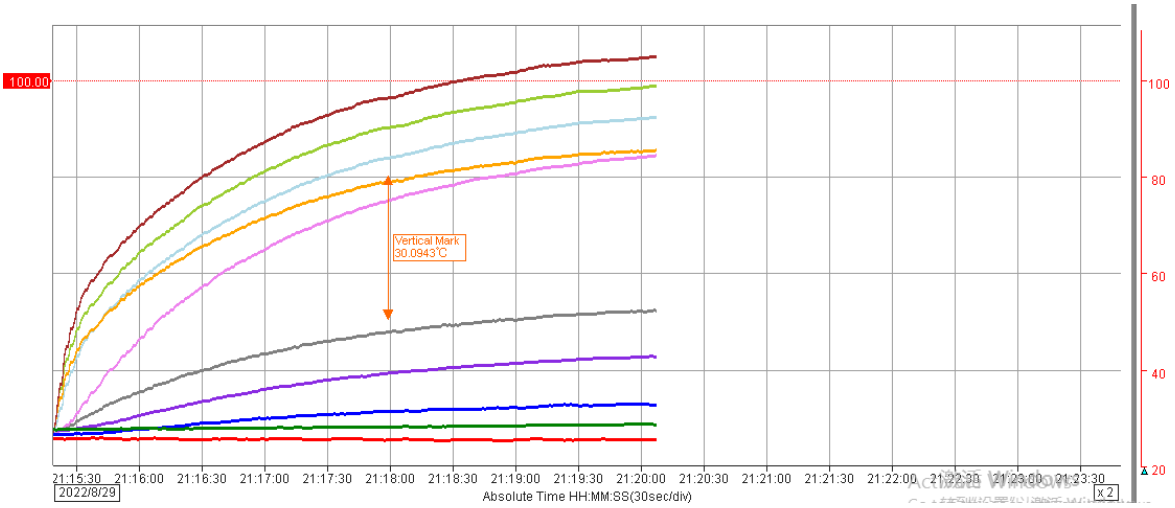


Figure 50 Vertical mark

・Add channel mark to focus trend graph

[Add Mark] button Select the [Channel Mark] button , then click the button, if there is a cursor in the trend, add a channel mark at the cursor A position.

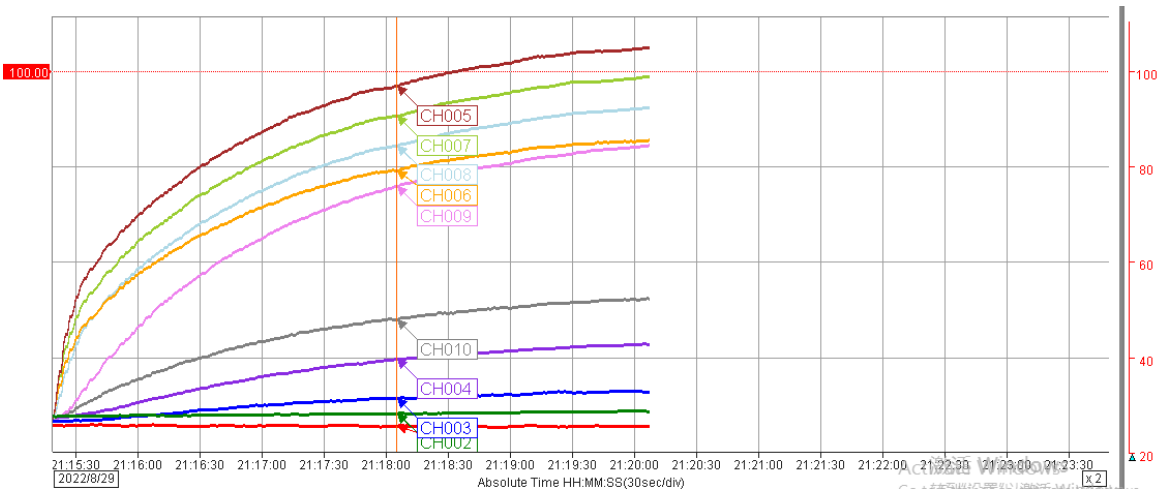


Figure 51 Channel mark

· Edit marks (single group mark, all group mark, single-point mark, range mark, vertical mark, channel mark)

1. Double-click the mark text box to pop up the mark setting dialog box. The mark Setting dialog box is shown in the figure below.
2. Modify the settings in the dialog box and click the OK button to confirm.

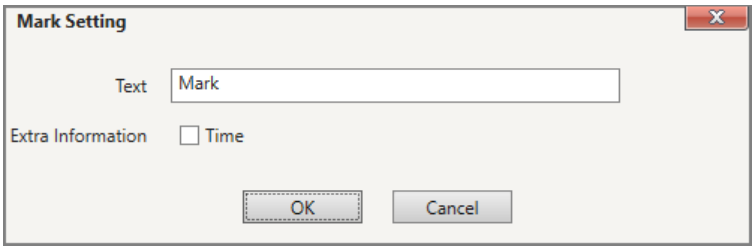


Figure 52 Single group mark / all group mark setting dialog

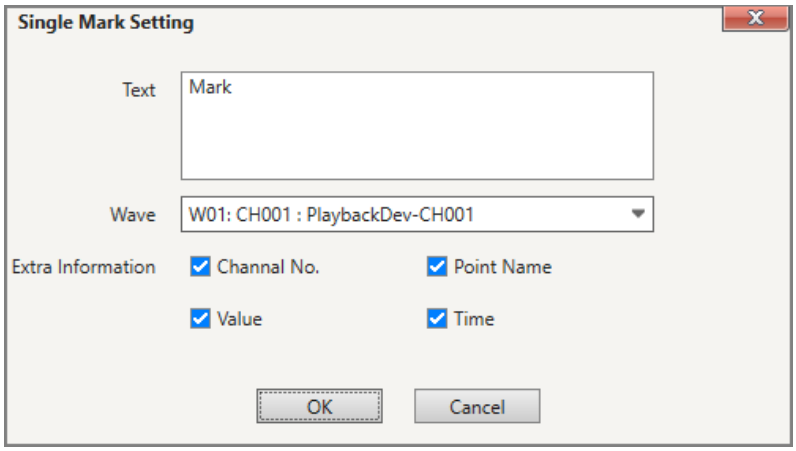


Figure 53 Single-point mark setting dialog

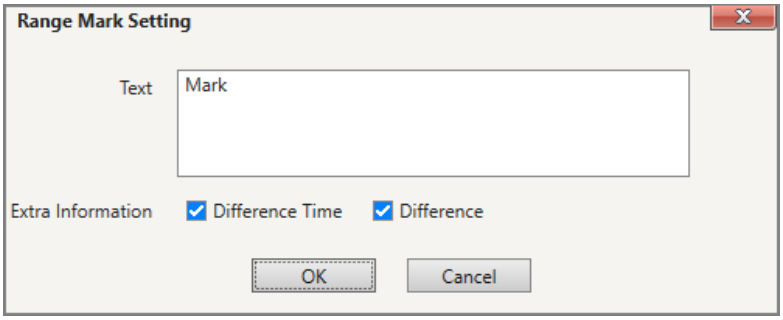


Figure 54 Range mark setting dialog

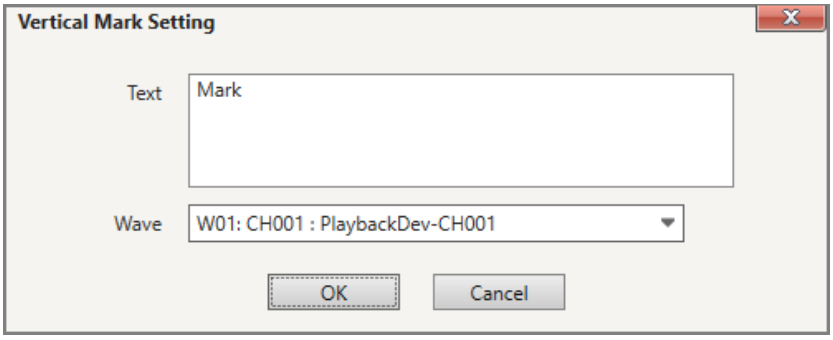


Figure 55 Vertical mark setting dialog

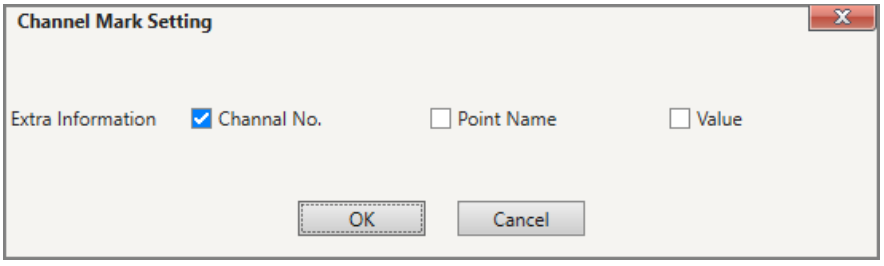


Figure 56 Channel mark setting dialog

· Delete marks (single group mark, all group mark, single-point mark, range mark, vertical mark, channel mark)

1. Move the positions of cursor A and cursor B in the trend graph to include the mark between cursor A and cursor B (the range mark only needs to include the left line)
2. Click the [Delete Mark] button , and the mark between cursor A and cursor B is deleted.

10.2.3. Real-time data display of the channel

The latest value of the data is displayed in real time in the form of a list on the right side of the screen. The real-time data of the channel is displayed in group units. If different groups have the same group name, they will be displayed together.

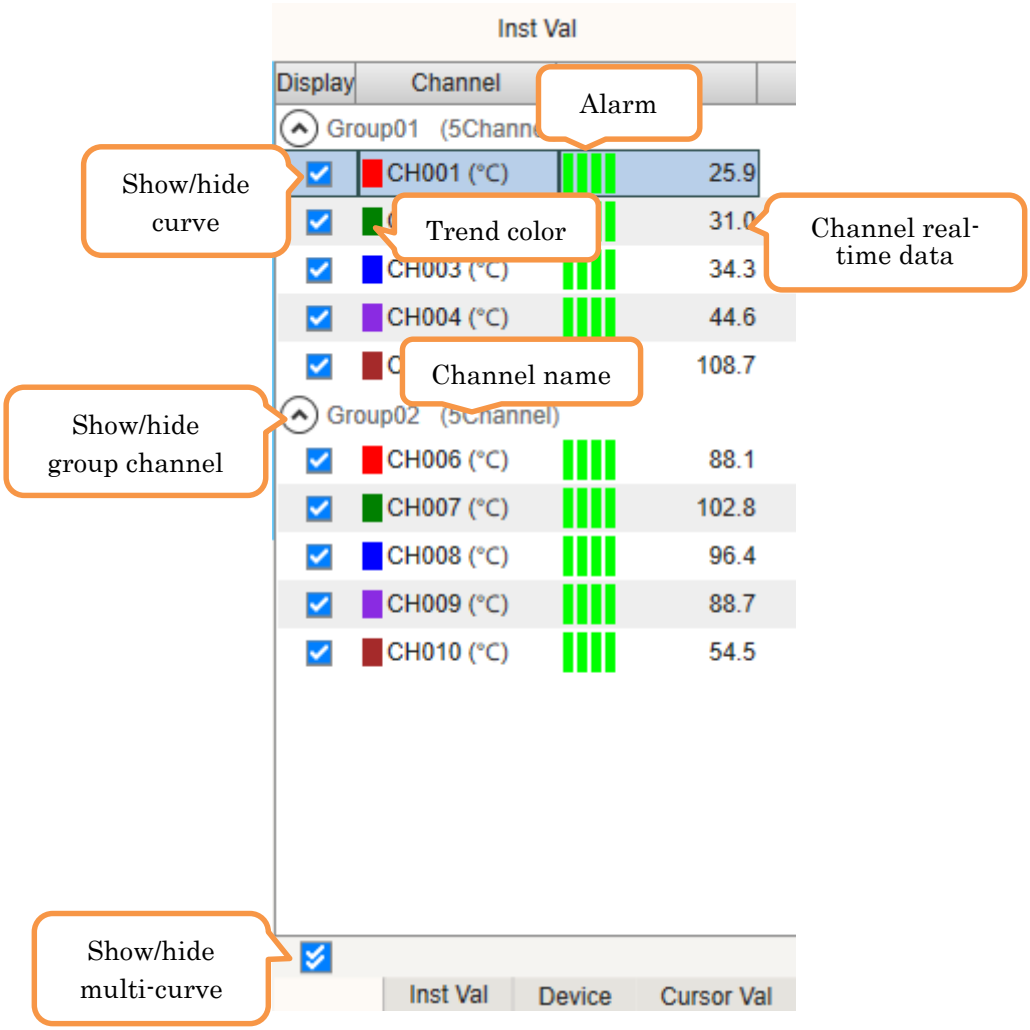


Figure 57 Channel real-time data display

- **Show/hide curve**

In the channel information list, the selection box in front of the selected/unselected channel ☑ or ☐, can show/hide the curve in the trend.

Select multiple channels in the channel information list, and then click the switch button below to ☑ display/hide multiple curves in the trend at the same time.

10.2.4. Real-time display of device status

The status of the device is displayed in real time in the form of a list on the right side of the screen, as shown in the figure below.

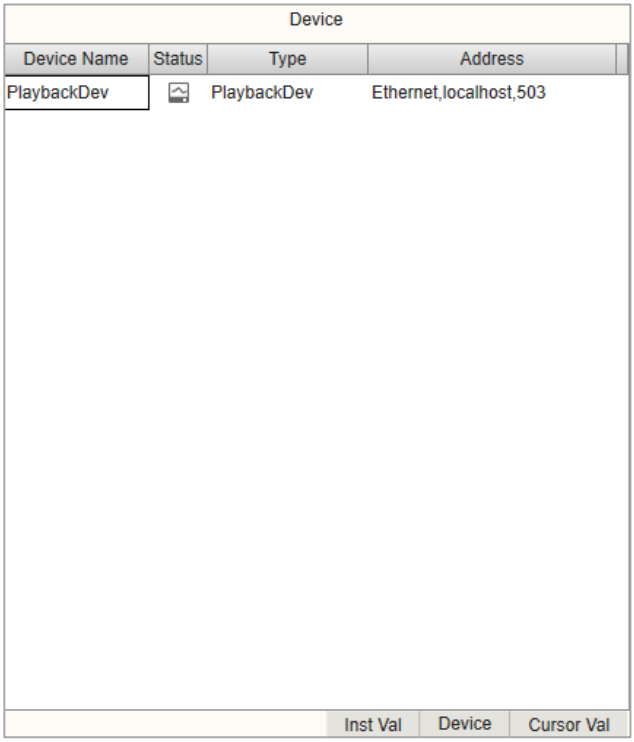


Figure 58 Real-time display of device status

The status of the device includes:

Normal collection:

Retry the connection:

Connection lost:

10.2.5. Cursor value is displayed in real time

You can also select "Cursor Val" on the right side of the screen to display the values and difference values of cursors A and B in real time, as shown in the figure below.

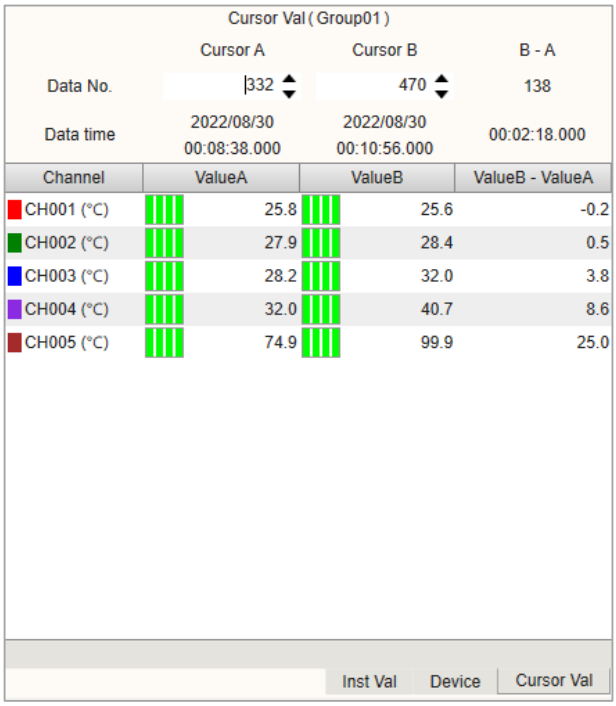


Figure 59 Real-time display of cursor value

・Adjust cursor position

Enter the cursor position data number in the cursor A or cursor B text box, and the cursor moves to the input position after the Enter key is pressed.

Click the up and down arrows to the right of the cursor A or cursor B text box to fine-tune the cursor data number.

When the cursor A or cursor B text box has the focus, scroll the mouse wheel to adjust the cursor data number.

10.3. Viewing test results

After the test is stopped, the completed test screen will be displayed in the work area, or click the corresponding test in the navigator to display the completed test screen, as shown in the following figure.

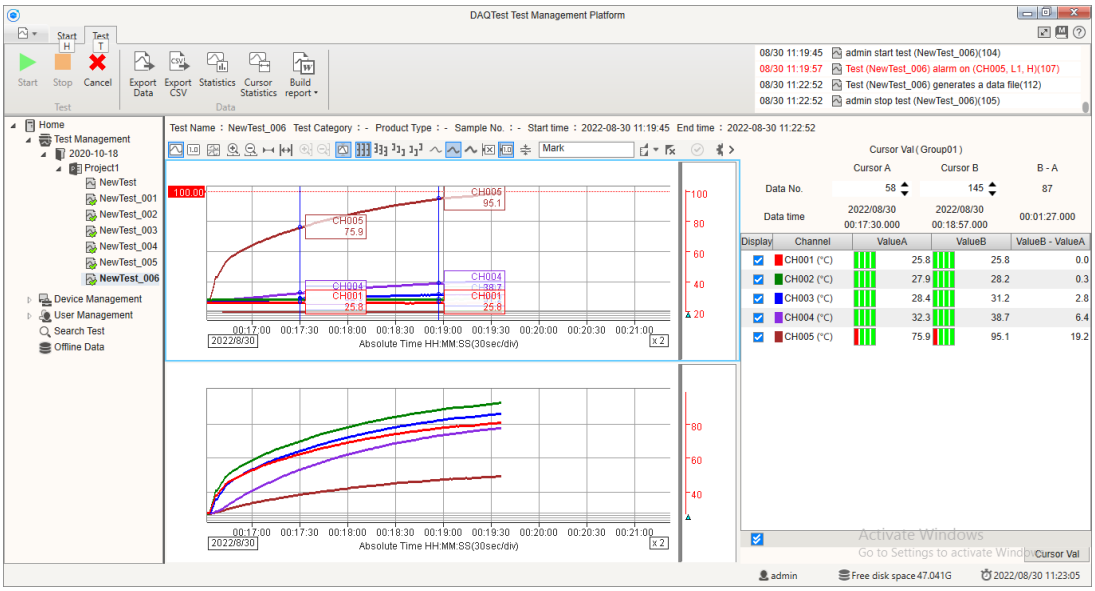


Figure 60 Test result

At this time , the "Alarm ACK " button in the tool bar of the trend window is invalid , and there is no "Inst Val" and "Device" tabs in the status area, and other operations are the same as the test running state.

10.4. Export CSV

1. Click the [Export CSV] button in the Data Operations group on the toolbar  . The CSV data export setting dialog box pops up, select the data range in the dialog box, skip the previous data points and step points, and then click the OK button to pop up the save file dialog box.

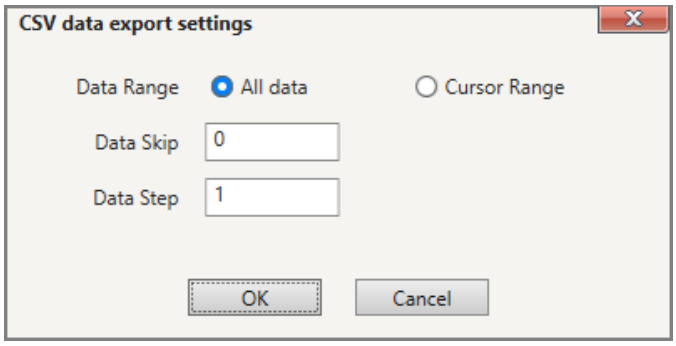


Figure 61 CSV data export setting dialog

2. In the Save File dialog box, select the path to save the file, and then enter the save

file name. Click the Save button. A progress bar is displayed, and when the save is complete, the progress bar closes.

[Description]

The number of skip points refers to the number of points to skip previous data. Step point refers to exporting 1 data per step point. For example: when the number of skip points is 100 and the number of step points is 2, the export data number is the 100th, 102nd, 104th, 106th ...

10.5. Statistics

Click the [Statistics] button  on the toolbar to perform statistical analysis on the test data and display the statistical results. The statistics result screen is shown in the figure below.

When a cursor is displayed in the trend graph, perform statistical analysis on the data between cursor A and cursor B. When the cursor is not displayed in the trend graph, perform statistical analysis on the entire data.

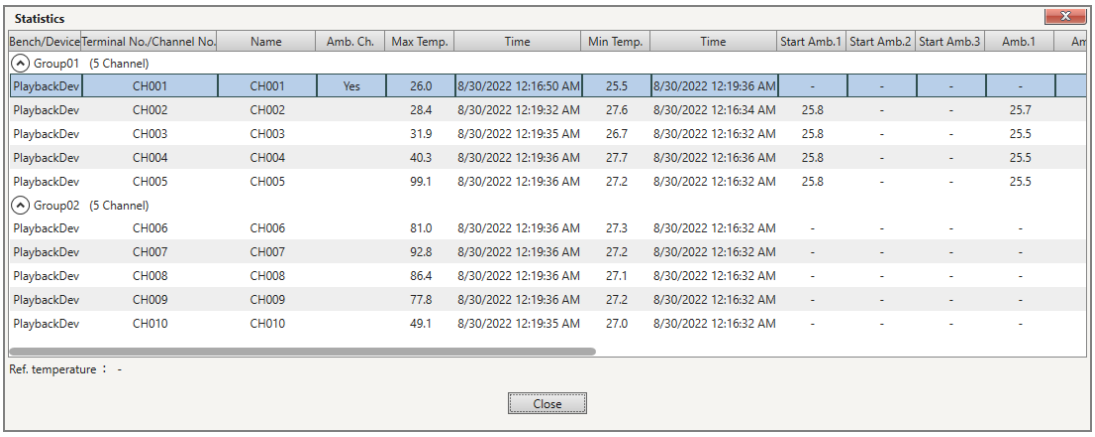


Figure 62 Statistics screen

10.6. Data cursor statistics

data cursor statistics function is used to statistics on the data between cursor A and cursor B , and display the statistical results of the maximum value, minimum value, average value, peak-to-peak value, and root mean square of all channels in the group.

1. Set Cursor A and Cursor B as calculation intervals in the trend graph.

2. Click the [Cursor Statistics] button  in the Data Operation group on the toolbar. The cursor statistics dialog box pops up.

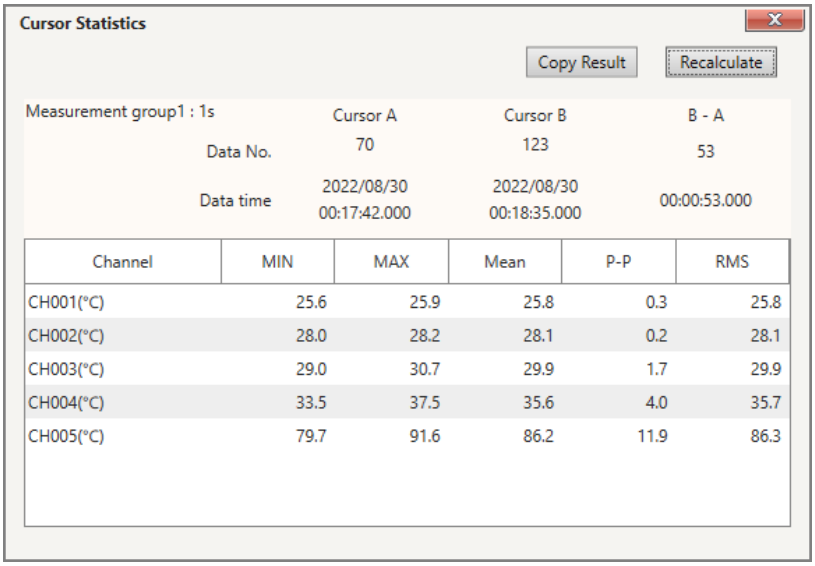


Figure 63 Cursor statistics

・Result copy

Click the "Copy Result" button to copy the current cursor statistics result table to the clipboard. It can then be pasted into text editing software or Excel.

・Recalculate

Move the cursor position in the trend graph, and then click the "Recalculate" button to update the cursor statistics.

10.7. Generate report

1. Use Cursor A and Cursor B to select the output report range in the trend graph. When the cursor is hidden, or when cursor A and cursor B are in the same position, the report scope is all data.

2. Click the [Build report] button on the toolbar to select the original record or the formal report.

3. In the pop-up file save dialog box, select the file save location, enter the report file name, select the file type: WORD file or PDF file, and then click the OK button to start generating the report.

4. After the report is generated, the progress bar closes and the report file is automatically opened.

[Description]

When the report is generated, the system automatically replaces the keywords in the report template with the current test result , and the trend graph captures the data within the report scope.

The marks added to the trend graph are output to the report, but Cursor A and Cursor B are not output to the report. To label curves in report trends, use channel markers.

・Report template

Report templates can be customized, if you have template customization needs, please contact us.

[Error message]

When viewing the test results, if the acquisition of the data file fails, E3024 is displayed.

When viewing the test results, if the opening of the data file fails, E3025 is displayed.

During CSV output, if a file writing error occurs, E3026 is displayed.

During report output, if the report template file does not exist, E3027 is displayed.

When the report is output, if the WORD software is not installed on the client PC, E3028 is displayed.

During report output, if the file selected for output is being opened, exporting the report will fail. Please close or select another output file and try again.

Chapter 11. Manage stop conditions

This section includes: Stop Condition Overview, Add Stop Condition, Edit Stop Condition, and Delete Stop Condition actions. This chapter describes these operations in detail.

11.1. List of stop conditions

1. Click the "Set" button in the New Test/Edit Test interface to display the "Stop Condition Setting" dialog box.

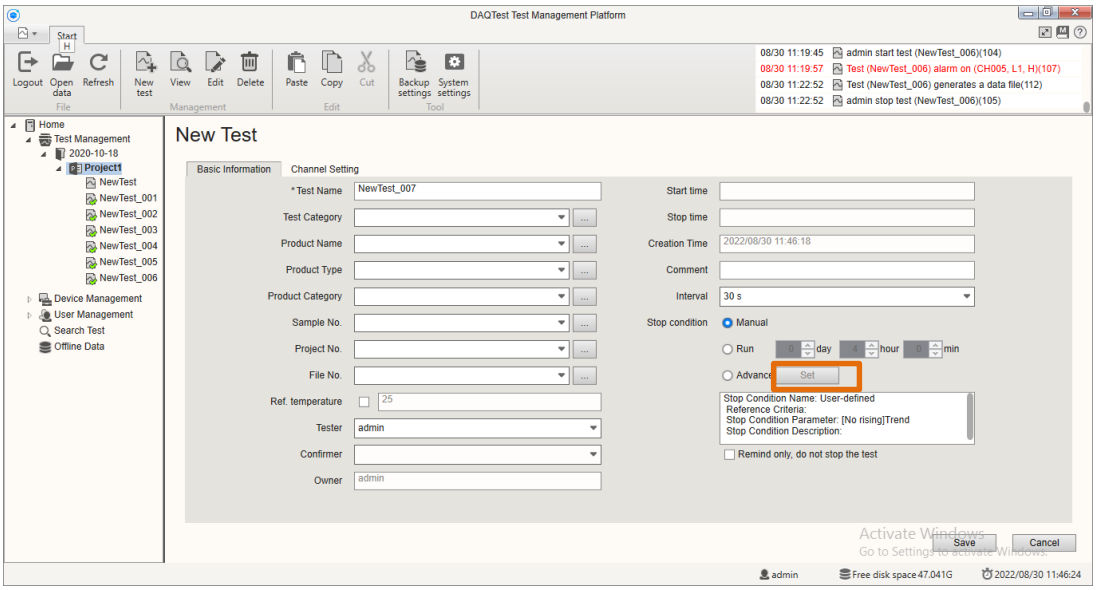


Figure 64 Test edit screen

2. Click the " ... " button in the "Stop Condition Setting" dialog box.

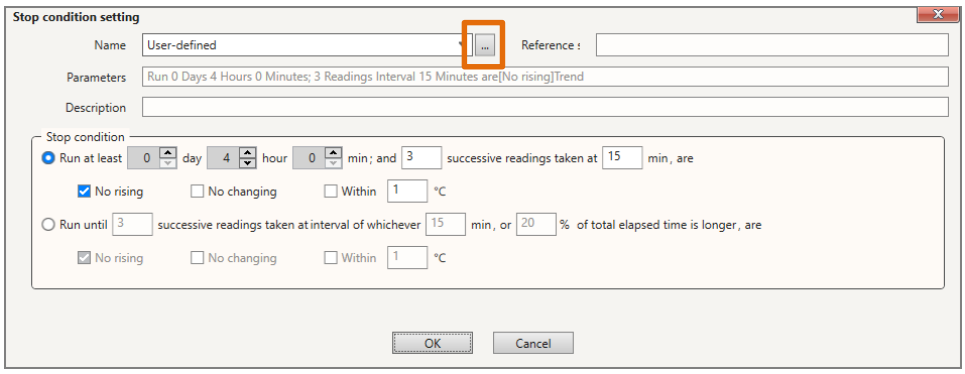


Figure 65 Stop condition setting screen

3. The following stop condition list screen is displayed. This screen lists all stop conditions. The addition, modification and deletion of stop conditions can be performed in this screen .

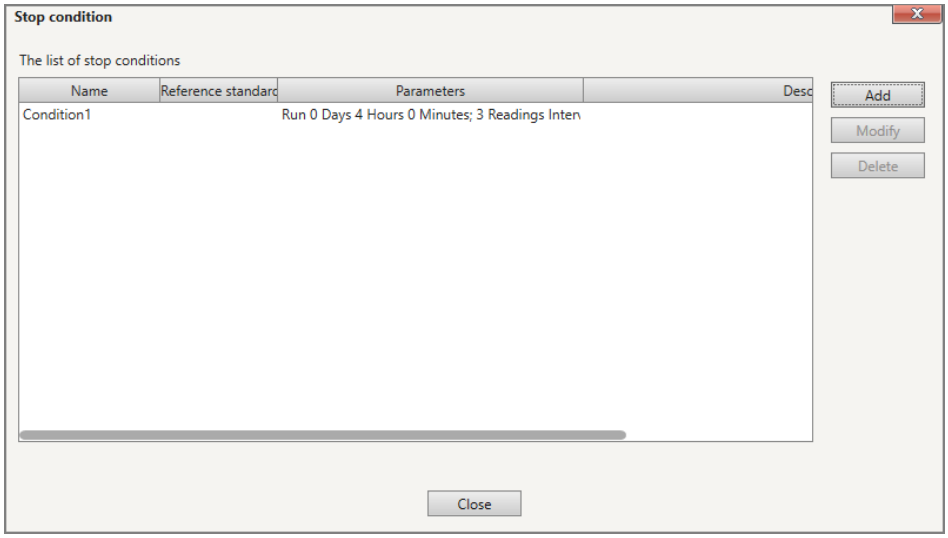


Figure 66 Stop condition list screen

11.2. Add stop condition

1. Click the "Add" button to display the "Condition Editing Dialog".

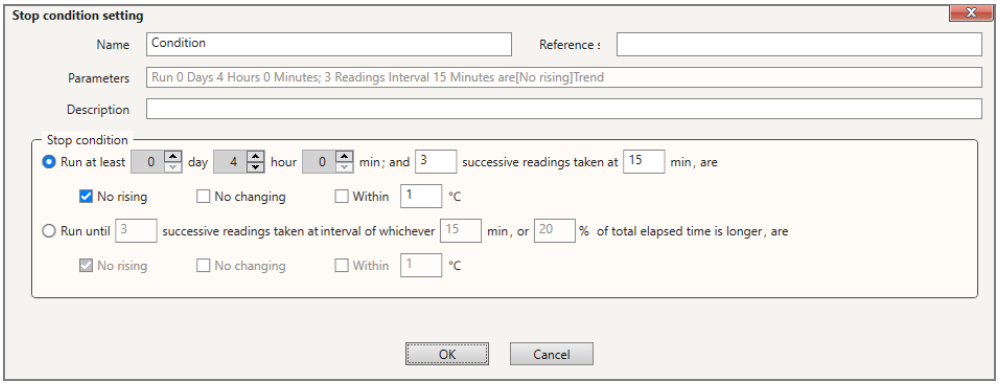


Figure 67 Added stop condition screen

2. Enter the stop condition information in the "Stop condition setting Dialog Box" and click the "OK" button.

11.3. Modify stop condition

1. Select a stop condition in the "The list of stop conditions" and click the "Modify" button or double-click the stop condition to display the " Stop condition setting Dialog Box".

2. Change the stop condition information in the " Stop condition setting Dialog Box", and then click the "OK" button.

11.4. Remove stop condition

1. Select a stop condition in the "The list of stop conditions".

2．Click the "Delete" button to display the W2009 confirmation prompt box.

3．Click the "OK" button to delete the selected stop condition.

[Description]

The maximum number of stop conditions that can be set is 100.

If the user does not have the permission to edit the stop condition, even if he enters the modification page, all edit items in the dialog box are read-only and cannot be edited.

・Specify the data point to be taken when judging the stop condition with at least the operating time

A stop condition that specifies at least the duration of the run is shown in the figure below.

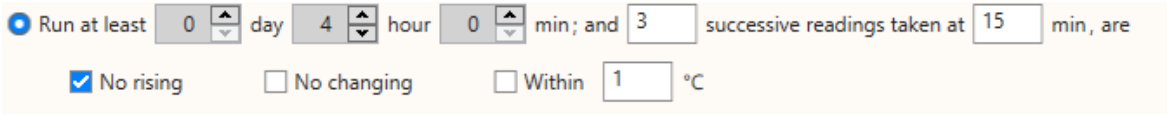


Figure 68 Stop condition parameter setting for the minimum operation time

Specify the stop condition for at least the running duration and set three parameters: at least the running duration T, the number of collected data N, and the data interval M. The stop condition means that after the test runs for T time, starting from the last point and moving forward, one point is taken at an interval of M, and a total of N points are taken, and the data duration is determined to be (N-1)*M .

・Data points to be taken when judging stop conditions that do not specify at least the operating time

Stop conditions that do not specify at least the duration of the run are shown in the figure below.

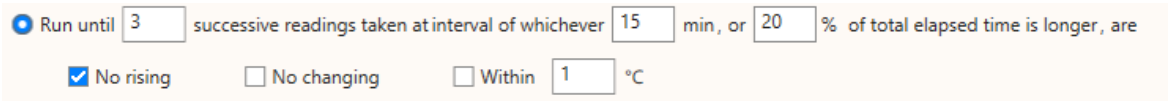


Figure 69 Stop condition parameter setting without the minimum operation time

Three parameters are set for the stop condition that does not specify at least the running duration: the number of collected data N, the data interval M , and the P% of the total duration. The stop condition means that starting from the last point and moving forward, one point is taken at an interval of M, and a total of N points are taken, and the data duration is determined to be (N -1)* M, or the interval is P % of the total duration of the collected data. Take N points and determine the data duration as (N-1)*(Total data duration * P%). Take points with a long interval for calculation.

· Stop condition judgment

1. No temperature rise: between two adjacent points, the latter point is less than or equal to the former point

2. No significant change: between two adjacent points, the difference is less than 1

3. The difference is less than n degrees: between two adjacent points, the difference is less than n

Chapter 12. Search test

Select "Search Test" in the navigator to enter the test search screen, as shown in the figure below.

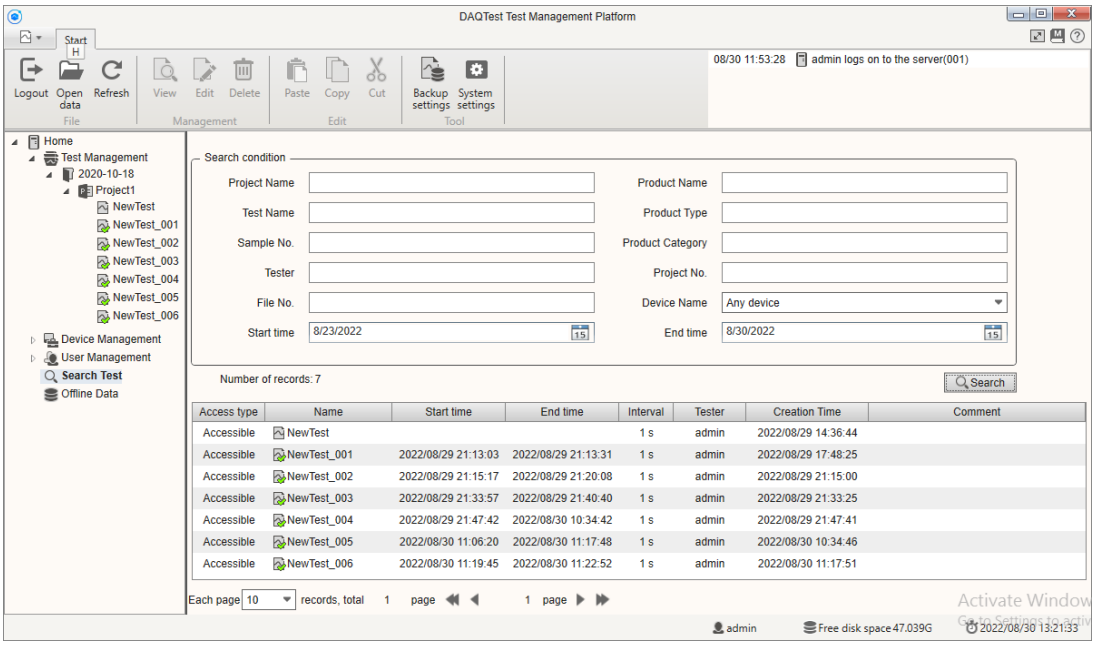
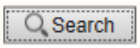


Figure 70 Test search screen

1. Enter search keywords in the search criteria area.
2. Click the [Search] button 

to display the waiting bar and start searching.
3. After the search is completed, the waiting bar closes, and the search results and the number of search items are displayed in the result area.
4. In the search result area, double-click the left mouse button to open the selected test, the workspace jumps to the test screen, and the navigator also jumps to the test node.

[Error message]

When opening a test, if the test no longer exists, E3100 is displayed.

Chapter 13. Export data and open offline data

・Export data

The client can save the completed test data locally, select a completed test in the navigator [Test Management], and then select the [Export Data] button  on the toolbar to export the test data. The exported data for each test consists of two files:

1. Test information, the suffix is PTI. The filename specified by the user when exporting the data.
2. Data files, the suffix is PTF. The filename specified by the user when exporting the data.

The exported data can also be opened in other clients. Analysis can also be opened in the DAQTest DataViewer software.

· Open offline data

The DAQTest can open data files exported locally by the client.

1. Select the [Open Data] button on the toolbar to pop up Open File dialog box.
2. Select the data file to open in the Open File dialog. Then click the [Open] button.
3. The test data starts to load in the workspace, and the wait bar is displayed.
4. After the data is loaded, close the wait bar and display the trend graph.
5. The navigator automatically switches to the "Offline Data" node.

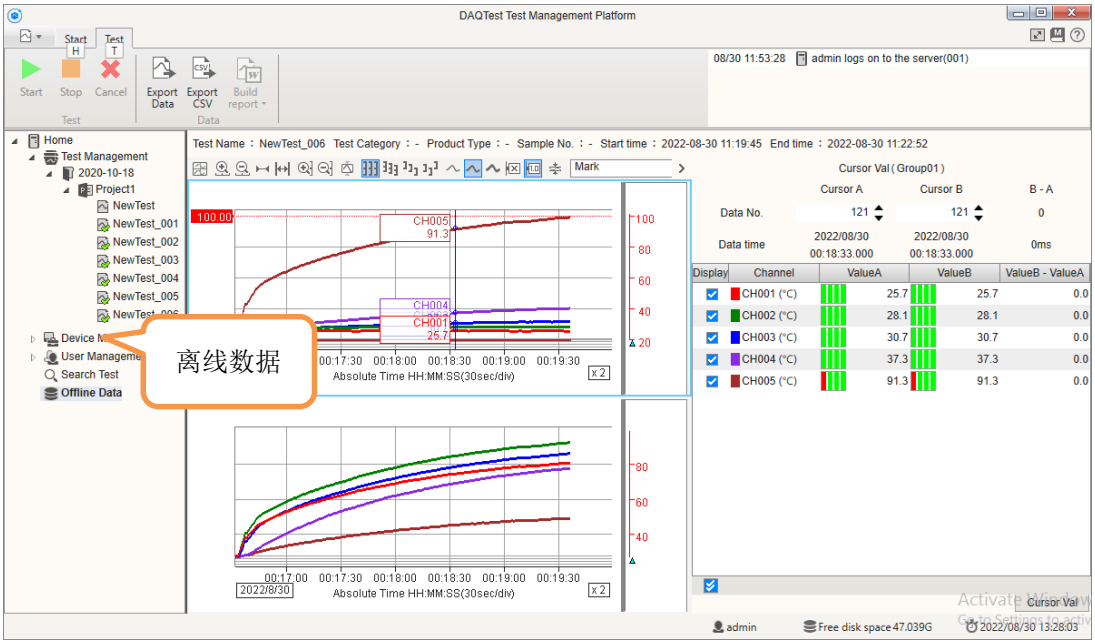


Figure 71 Open the offline data screen

[Error message]

If the opening of the data file fails, E3025 is displayed.

Chapter 14. Managed Services

The DAQTest can manage related services through "DAQTest Server Manager" on the server side, select [All Programs]-[DAQTest]-[DAQTest Server Manager] in the start menu, and the interface is shown below after startup.

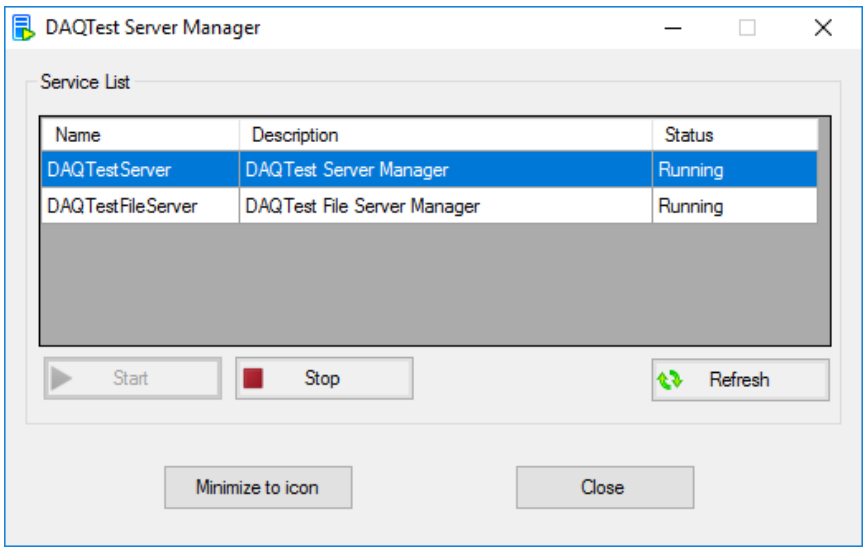


Figure 72 Service Manager screen

- **Start/stop service**

1. Select a service in the list of services.

2. Click the [Start] or [Stop] button to start or stop the service.

- **Refresh service list**

Click the [Refresh] button to update the latest status of the service list.

- **Minimize to desktop icon**

Click the [Minimize to icon] button or the minimize button in the upper right corner of the window to minimize the window to the tray icon in the lower right corner of the Windows desktop.

[Description]

Before using the DAQTest, please confirm that the status of all services in the service list is "Service Running".

Chapter 15. Restrictions and Precautions

The restrictions and precautions are documented in the Software Manual. Here, only multiple occurred situations and the situations related to the software are explained.

- DAQTest test management platform is a server/client architecture. It is necessary to ensure that the versions of the client software and server software are the same to log in to the server.
- Do not use the standby and hibernation functions of Windows while the software is in use.
- The DST setting of the data collection target instrument must be consistent with the DST setting of the PC running the software.

Chapter 16. Appendix

16.1. Dialog Box Summary

The dialog boxes that may pop up during the operation of the DAQTest include: messages, warnings and errors, as shown in the following table.

Table 10 Messages

Code	Message	Description and Solution
M1001	Are you sure you want to exit the program?	-
M1002	Are you sure you want to log out of the server?	-
M1003	Are you sure you want to stop the test?	-
M1004	Are you sure you want to cancel the test? Note: Test data is deleted and cannot be recovered after cancellation.	-
M1005	The stop condition has been met, please stop the test manually.	
M1006	The server could not find a valid license. The program goes into trial mode.	Purchase the official version of the software and activate the software.

Table 11 Warnings

Code	Message	Description and Solution
W2001	Are you sure you want to delete the device [***] ?	Confirm whether to delete the device. "***" is the name of the device being removed.
W2002	Are you sure you want to delete the bench[***] ?	Confirm whether to delete the bench. "***" is the name of the deleted bench.
W2003	Are you sure you want to delete the folder [***]?	Confirm whether to delete the folder. "***" is the name of the deleted folder.
W2004	Are you sure you want to delete the project [***], and everything below it?	Confirm whether to delete the project. "***" is the name of the project being deleted.
W2005	Are you sure you want to delete the user [***] ?	Confirm whether to delete the user. " ***" is the name of the deleted user.
W2006	Are you sure you want to delete the role [***] ?	Confirm whether to delete the role. "***" is the name of the role being removed.
W2007	Are you sure you want to delete the test [***] ?	Confirm whether to delete the test. "***" is the name of the removed test.
W2008	Are you sure you want to reset the password of the user [***]?	Confirm whether to reset the password. "***" is the username whose password was reset.
W2009	Are you sure you want to delete the condition [***] ?	Confirm whether to delete the condition. "***" is the name of the removed condition.
W2010	Are you sure you want to save the settings and perform an immediate	Confirm whether to back up now. Since the backup operation

Code	Message	Description and Solution
	backup?	consumes a lot of server resources, please try to back up when not testing.

Table 12 Errors

Code	Message	Description and Solution
E3001	An unknown error is requested to restart the client software.	Please log out and log in to the server again.
E3002	The database operation is wrong.	Make sure the database file is not damaged. Please restart the server.
E3003	The specified item no longer exists.	Please refresh the navigator before proceeding.
E3004	The server (Rx.xx.xx) does not match the version of the client (Rx.xx.xx) software and failed to log in.	Please install the client software consistent with the server version. Rx.xx.xx are the version numbers of the server software and client software respectively.
E3005	No action permissions. Please log out and re-log on to the server and try again.	The currently logged in user does not have this operation permission.
E3006	The specified server could not be connected.	Please confirm whether there is a problem with the communication line with the server, or whether the IP address is correct.
E3007	The login failed. Please confirm your user name and password.	Although it is connected to the server, the logged-in user information is inconsistent. Please confirm that the entered user name and password are correct.
E3008	There was an error communicating with the server.	Please confirm whether there is a problem with the communication line with the server
E3009	The password is wrong.	When trying to change the password, the entered password is incorrect. Please confirm the password before the change and enter it again.
E3010	The changed password does not match the confirmation password.	Please enter the same "New password" and "Confirm the password".
E3011	The user name entered already exists and the user cannot register.	A user with the same name is already registered. Please confirm your username and register with another username.
E3012	The user is logged in and cannot be deleted.	Please log out the user to be deleted before performing the delete operation.
E3013	The entered role already exists and the role cannot be registered.	A role with the same name is already registered. Please confirm the role name and register with another role name.
E3014	The number of users has reached the maximum and no more users can	Please delete the discontinued user before adding a new user.

Code	Message	Description and Solution
	be added.	
E3015	The number of roles has reached its maximum and no more roles can be added.	Please delete unused roles before adding new ones.
E3016	The specified folder does not exist.	Verify that the specified folder exists on the server.
E3017	Device with the same name already exists, please use a different device name.	Since a device with the same name has already been created, change the device name and try again.
E3018	The server was unable to obtain device information.	Confirm that the device with the specified connection parameters exists and can communicate normally. The specified device type is correct.
E3019	The device is in use and cannot be operated.	Stop testing with the device before proceeding to operate the device.
E3020	There are tests running in the project, and the deletion stops.	Stop the test before proceeding with the delete operation.
E3021	The test is open and cannot be deleted.	Close the test you want to delete before proceeding to delete the test.
E3022	The test is running and cannot be deleted.	Stop the test you want to delete before proceeding to delete the test.
E3023	The device or channel used in the test has been deleted and the test cannot begin. Please modify the test before you start the test.	Modify the test to remove the channel of the removed device from the test. Then start the test again.
E3024	Failed to get the data.	Please make sure that the data file on the server side has not been deleted or moved to another location.
E3025	The data file failed to open.	Please confirm that the data file is not damaged. Please open the test again to get the data file again.
E3026	The conversion of CSV format data failed.	Please make sure the specified folder has write permissions and try again.
E3027	The report template is missing and the report was failed to generate.	Please check if the report template file exists.
E3028	The report failed to be generated.	Please confirm that Microsoft Word software is installed and try again.
E3029	The backup is in the process of being performed.	The backup cannot be started again because the backup is in progress.
E3030	The export of the CSV file failed.	Please reopen the test and perform the export operation again.
E3031	The export of binary data failed.	Please reopen the test and perform the export operation again .
E3032	Tests created in device channel mode cannot be opened in bench terminal mode.	Please switch to device mode through system settings . Re-login is required .
E3033	The maximum number of terminals has been reached.	No more terminals can be added.

Code	Message	Description and Solution
E3034	The maximum number of channels has been reached.	No more channels can be added.
E3035	At the same time, the maximum number of tests is run and the start test fails.	Stop some tests and try again.
E3036	There are no channels or terminals assigned to the test and the test cannot start.	Start the test after assigning a channel or terminal to the test.
E3037	Failed to start Adobe Reader.	Please confirm whether Adobe Reader and its version are installed.
E3039	There is not enough disk space to save the data and the test cannot begin.	The software requires at least 100M of free disk space. Please free up disk space before starting the test.

16.2. Log Summary

Table 13 Operation log

Content	Type icon	Log code	Timing to create	Log receiving range	Color
[user] logs on to the server		001	when logging in	All clients	black
[user] log out of the server		002	when logged out	All clients	black
The software trial has expired		003	When the trial expires	All clients	red
The server is running low on disk space		004	When the remaining disk space for saving data is less than 100M, a log is displayed every 1 minute	All clients	red
The system starts backing up the data		005	When starting to back up data	All clients	black
The data backup ends		006	At the end of data backup	All clients	black
The server runs out of disk space and the running tests stop automatically		007	When the remaining disk space for saving data is less than 50M	All clients	red
[user] create a test ([test])		101	When creating a test	All clients	black
[user] Modify test ([test])		102	When modifying the test	All clients	black
[user] delete test ([test])		103	When deleting a test	All clients	black
[user] start test ([test])		104	When starting the test	Open the client of [test] or the client logged in by admin	black
[user] stop test ([test])		105	When stopping the test	Open the client of [test] or the client logged in by admin	black
[user] Cancel the test ([test])		106	When canceling the test	Open the client of [test] or the client logged in by admin	black
Test([test]) alarm on ([CH],[Level],[Type])		107	When an in-test alarm occurs	Open the client of [test] or the client logged in by admin	red
Test ([test]) Alarm off ([CH],[Level],[Type])		108	When the in-test alarm is released	Open the client of [test] or the client logged in by admin	green
[user] confirm the alarm for the test ([test])		109	When the user acknowledges the	Open the client of [test] or the	black

Content	Type icon	Log code	Timing to create	Log receiving range	Color
			alarm	client logged in by admin	
The stop condition for the test ([test]) has been met		110	When the stop condition is met	Open the client of [test]	red
The test ([test]) stops automatically		111	When the stop condition is met and stop	Open the client of [test] or the client logged in by admin	black
test([test]) generates a data file		112	When the test stops	Open the client of [test] or the client logged in by admin	black
Communication error with the [device] in the test ([test])		113	When there is an error in the communication between the server and the device	Open the client of [test] or the client logged in by admin	red
Communication recovery with the [device] in the test ([test])		114	When server-device communication is restored	Open the client of [test] or the client logged in by admin	green
[user] create a folder ([folder])		201	When creating a folder	All clients	black
[user] modify folder ([folder])		202	When modifying a folder	All clients	black
[user] delete folder ([folder])		203	When deleting a folder	All clients	black
[user] create a project ([project])		301	When creating a project	All clients	black
[user] Modify project ([project])		302	When modifying the project	All clients	black
[user] delete project ([project])		303	When deleting an item	All clients	black
[user] Create a bench ([bench])		401	When creating a table	All clients	black
[user] Modify bench position ([bench])		402	When changing the table	All clients	black
[user] delete bench ([bench])		403	When deleting a table	All clients	black
[user] create a device ([device])		501	When creating a device	All clients	black
[user] Modify device ([device])		502	When modifying the device	All clients	black
[user] delete device ([device])		503	When removing the device	All clients	black

*Note 1: [user] means the user name of the operation, [test] means the test name of the operation, [folder] means the folder name, [project] means the project name, [bench] means the bench, [device] means the device name , [CH] channel name, [Level] alarm level, [Type] alarm type.

16.3. Toolbar button and shortcut key

Area	Button	Icon	Hot key	Function
File	Login		ALT+L	The login dialog box pops up
	Logout		ALT+G	A logout confirmation dialog pops up
	Open data		ALT+O Ctrl+O	Open file dialog pops up
	Refresh		F5	Refresh folder tree
Management	New Folder		ALT+F	The folder creation screen is displayed
	New Project		ALT+P	Display the new project screen
	New test		ALT+T	Display the test new screen
	New bench		ALT+B	Display the new station screen
	New device		ALT+I	Display the new device screen
	New user		ALT+U	Display the new user screen
	New role		ALT+R	Display the new role screen
	View		ALT+V	Displays the corresponding viewing screen
	Edit		ALT+E	Display the corresponding edit screen
	Delete		ALT+D	A delete confirmation dialog box pops up
Edit	Paste		Ctrl+V	Paste item with folder selected Paste test with item selected Paste text in edit box
	Copy		Ctrl+C	Duplicate an item with the item selected Duplicate the test with the test selected Copy text in case of edit box
	Cut		Ctrl+X	Cut an item with the item selected Cut test with test selected Cut text in case of edit box
Tool	Backup settings		-	Displays the Data Backup Settings dialog
	System settings		-	Display the System Settings dialog
Test	Start		ALT+B	start testing
	Stop		ALT+E	Stop the test, the test cannot be restarted
	Cancel		ALT+Z	Cancel the test, the test can start over
Data	Export Data		ALT+S Ctrl+S	Export test data
	Export CSV		ALT+O	Export test data to CSV file

	Statistics		ALT+T	Statistical analysis of cursor interval data
	Cursor Statistics		ALT+R	Cursor section data execution calculation
	Build report		ALT+P	Generate reports from report templates
other	Maximize workspace		F4	Hide the navigator and toolbar
	Restore workspace		F4	Show navigator and toolbar
	Manual		F1	Display the PDF version of the operation manual
	About		-	Display version information

16.4. FAQ

Q1: Can the server and client run on the same computer?

A1 : Both the server and the client installed on the same computer or on different computers can run.

Q2: How to print the report?

A2: After clicking "Build report" in the toolbar, the system will automatically generate the Word version of the report or the PDF version of the report according to the report template preset by the user, and automatically open it, and the user can use the print function that comes with Word or the PDF version of the report.

Q3: During the test, the communication between the server and the instrument is disconnected and then resumed. What operation will be performed?

A3: When the communication between the instrument and the server is disconnected, the server will retry the communication every 30 seconds. Once the communication is restored, it will continue to collect and record data. Data during communication disconnection is empty.

Q4: What should I do if I forget to output the report after executing the test?

A4: Find the test in the navigator - [Test Management], or find the test by searching the test, double-click the test, enter the test result view, and select "Build report" in the toolbar to re-produce the report.

Q5: How to re-execute a completed test?

A5: After the test is completed, it cannot be re-executed again. If you want to re-execute the same test, copy and paste the test, generate a new test, and execute it.

Q6: Why does the trend graph stop during the test execution?

A6: During the test execution, if the user clicks on the trend graph to view the cursor value, or drags the scroll bar below the trend graph to look back at the previous data, the system will remain on the screen for 5 minutes by default without performing other operations. Return to displaying the latest data, or the user can drag the scroll bar to the far right to restore the dynamic display of the latest data. See 10.2.1Trend operation for details .

Q7: What should I do if I forget the user login password?

A7: Please use admin to log in to the system, select the corresponding user name under the user management node, right-click to select "Edit", click the "Reset password" button in the edit screen, and set the user's password to blank.

If you forget the admin password, please contact us.